

# JOIN THE EVOLUTION

Unparalleled automation | Unprecedented flexibility



**PANTHER**  
FUSION™

PANTHER  
**FUSION™** Flu A/B/RSV  
Assay

PANTHER  
**FUSION™** AdV/hMPV/RV  
Assay

PANTHER  
**FUSION™** Paraflu  
Assay

PANTHER  
**FUSION™** Open Access™

# EVOLVE

your lab's molecular diagnostic capabilities.



## Flexibility

to improve turnaround time

**Menu consolidation:** Run respiratory, virology, HPV and STI assays simultaneously on the same instrument.

**Random access:** Load any combination of sample types and assays at the same time.

**Continuous loading:** Load samples, reagents and consumables at any time.



## Freedom

to increase productivity

**High throughput:** Process 335 Panther Fusion™ tests or combine Panther Fusion and Aptima® assays for up to 500 tests in 8 hours.

**Sample capacity:** Continuously load and access up to 120 samples.



## Control

and reduce costs

**Open Access™ functionality:** Run lab-developed assays and protocols.

**Automated scheduled maintenance:** Reduce hands-on time.

**Bidirectional LIS interface:** Streamline data management.

## Improve workflow. Increase productivity.

Fully automated sample-to-answer instrument.



# EVOLVE

your syndromic respiratory testing with a fully automated, modular approach.

## Increase efficiency. Reduce costs.

Proven performance and comprehensive design you can trust.

### High sensitivity and specificity\*

PANTHER FUSION™ Flu A/B/RSV Assay	Sensitivity	Specificity
Influenza A	98.8%	99.0%
Influenza B	100%	99.8%
RSV	99.3%	99.9%

  

PANTHER FUSION™ AdV/hMPV/RV Assay	Sensitivity	Specificity
Adenovirus	98.3%	97.0%
hMPV	100%	94.6%
RV	90.1%	95.4%

  

PANTHER FUSION™ Paraflu Assay	Sensitivity	Specificity
Parainfluenza 1	100%	100%
Parainfluenza 2	100%	100%
Parainfluenza 3	100%	99.6%
Parainfluenza 4	98.1%	100%

\* Hologic data on file, not yet published.



**Personalize patient testing:** Select testing from the most common respiratory viruses.



**Cost control:** Run only the needed assays to avoid unnecessary expenses.



**Inclusivity:** Offers comprehensive coverage of target analytes.



**Unit dose, lyophilized format:** Minimize reagent waste and achieve long on-board stability.



**Total nucleic acid extraction:** Use a single extraction for multiple assays, improved multiplexing and Open Access™ capabilities.



**Bulk onboard reagents:** Reduce user interaction and return visits to system for increased lab efficiency.

### The Panther Fusion™ system

allows you to run a wide range of PCR and TMA assays, increase walkaway freedom, enhance flexibility and evolve your lab's efficiency.

### The Panther Fusion™ assays

increase flexibility to run patient-specific targets, allowing for personalized patient testing and better cost control in your lab.

# PANTHER FUSION™

<b>The Panther Fusion™ system</b> <b>Unparalleled automation</b>	<b>The Panther Fusion™ respiratory assays</b> <b>Unmatched modular approach to syndromic testing</b>
Consolidate your molecular testing with an expanded menu.	Personalize patient testing.
Total nucleic acid extraction.	Detect the most common respiratory viruses.
Randomly access and continuously load up to 120 samples.	Run only the assays needed to control costs.
Streamline data management.	Deliver comprehensive coverage of target analytes.
Reduce hands-on time.	Offer highly compliant reactivity and specificity results.
Process 335 Panther Fusion tests or combine Panther Fusion and Aptima® assays for up to 500 tests in 8 hours.	Utilize unit dose, lyophilized reagents to achieve 60 day on-board stability.
Develop your own assays and protocols with Open Access™.	Minimize user interaction and return visits to the system with bulk on-board reagents.

## Panther Fusion Specifications

<b>Sample Throughput</b>	2.4 hours to first result. Panther Fusion PCR assays 335 tests in 8 hours. Up to 500 tests in 8 hours combining Panther Fusion and Aptima assays.
<b>Sample Capacity</b>	120 sample tubes can be loaded at once - in 8 racks with 15 samples per rack. Every 15 minutes a rack can be removed and new samples can be loaded, whenever you are ready.
<b>Reagent Capacity</b>	Panther Fusion can hold up to 28 cartridges, each with 12 reactions per cartridge for a total of 336 tests. Plus the capacity on Panther still remains. 1 reagent kit per lane (up to 250 tests); 4 lanes available to load any combination of assays (up to 1000 tests). Kits can be reloaded as they are consumed without pausing testing. 2000-test onboard universal fluids capacity.
<b>Waste Capacity</b>	750 tests.
<b>Component Dimensions (w x d x h)</b>	Panther System 193 cm (76 in) x 81.5 cm (32 in) x 175 cm (69 in). UPS (Optional) 21.4 cm (8.4 in) x 41.0 cm (16.1 in) x 32.5 cm (12.8 in).
<b>Weight</b>	Panther Fusion System 537 kg (1184 lbs). UPS (Optional) 34.5 kg (76 lbs).
<b>Sample Tube Barcode Types</b>	Code 39, Code 93, Code 128 (ISBT 128), Interleaved 2 of 5, and Codabar.
<b>Environmental Requirements</b>	Ambient Temperature 15-30°C. Relative Humidity 20-85%.
<b>Electrical Requirements</b>	Electrical Input 190-240 +/- 10% VAC, 50-60Hz, single phase. Current Input Minimum of 15 amp circuit (dedicated); 20 amp circuit (dedicated) if used with optional UPS. Current Draw Instrument and ancillaries draw 400 watts in power-save mode to 1400 watts peak 100 VAC circuit draws 14 amps; 230 VAC circuit draws 6 amps.
<b>System Output</b>	Heat Dissipation 1000 watts (3412 BTU/hour) during steady state.