

Advancing transfusion safety and meeting evolving needs with ART

Grifols transfusion medicine portfolio - which includes blood and plasma testing and collection solutions - is designed to support safety from donation through transfusion. As a global healthcare company whose mission is to improve the health and well-being of people around the world, Grifols is committed to the ongoing delivery of innovative transfusion medicine solutions that help you safely and efficiently deliver blood and plasma products to patients.



Automation Ready Technology (ART) is a program to develop innovative automation solutions offering enhanced usability, improved user experience, and greater operational efficiency

As the need for unique lab setups and requirements increases, ART offers:

- **Enhanced oversight of instrument operation** - intuitive, user-centric, and remote diagnostics and monitoring interfaces
- **Simplified user management** - a single network of centralized data including a single login, shared reagents, and prevention of unintended or duplicate testing
- **Complete automation support** - compatibility with CLSI/compliant track connections provides a more seamless workflow
- **Increased walkaway time** - added features that support fewer instrument interactions

First-to-Market Innovations



- 1st** commercial NAT donor screening assay with two-region detection for HIV-1
- 1st** fully automated and integrated NAT system for worldwide donor screening
- 1st** commercial NAT donor screening assay for West Nile virus
- 1st** to offer NAT donor screening test for HIV and HCV in the US
- 1st** commercial NAT donor screening assay for hepatitis E virus
- 1st** to discover and publish on hepatitis C virus
- 1st** to clone and sequence the HIV genome
- 1st** donor screening IVD assay designed to detect 4 species of Babesia

Technical specifications

Physical dimensions (WxDxH)	<ul style="list-style-type: none"> Instrument: 122 x 81.5 x 175 cm Instrument with MTU Expansion Module: 149 x 81.5 x 175 cm UPS: 21.4 x 41 x 32.5 cm Direct-to-drain pump: 24 x 22 x 23 cm 	Environmental requirements	<ul style="list-style-type: none"> Altitude: Equal to or less than 2000 m above sea level Operational temperature: 15-30°C Operational humidity: 20-85% relative (non-condensing) at 30°C or below
Minimum clearance requirements	<ul style="list-style-type: none"> Base: 183 x 172.9 x 198 cm With MTU Expansion Module: 214 x 172.9 x 198 cm No need for rear clearance, instrument can be installed directly against a wall 	Electrical requirements	<ul style="list-style-type: none"> Electrical input: 100-240; VAC: (± 10%), 50/60 Hz; single phase Current input: 110 V-20 amp circuit (dedicated if used with optional UPS) specified to operate at a minimum of 15 amps (dedicated); 220 V-10 amp circuit (dedicated) specified to operate at 7.5 amps (dedicated) Current draw: Draw 1400 W peak, average 700 W (13 amps @ 100 VAC, 5.4 amps @ 240 VAC)
Weight	<ul style="list-style-type: none"> Base: 363 kg UPS: 34.5 kg With MTU Expansion Module: 423 kg 	Environmental output	<ul style="list-style-type: none"> Heat dissipation: 550 W (1878 BTU/hr) during steady state Drain output: Waste fluids drain to removable containers, or directly to centralized laboratory drainage system** Noise output: <60 dB(A)
Sample capacity	Up to 120 sample tubes (8 racks) + on-demand access*	Operating system	Microsoft Windows 10
Reagent capacity	Up to 2000 tests (4 sets) + on-demand access*	MTU expansion module (optional)	Up to 120 MTU capacity (up to 600 tests)
Fluids capacity	Up to 2000 tests (2 sets) + on-demand access*	Data sharing (optional)	<ul style="list-style-type: none"> Data sharing among up to 16 connected instruments Exchange partially utilized reagent kits among connected instruments Single user login and setup across networked instruments Duplicate-sample prevention across networked instruments
Consumables capacity	<ul style="list-style-type: none"> MTU: Up to 125 tests + on-demand access* Tips: Up to 576 MTU (with MTU Expansion Module): Up to 600 tests + on-demand access* 	Dashboard (optional)	<ul style="list-style-type: none"> Provides real-time status of networked Procleix Panther systems featuring ART that can be displayed via TV screen monitor, tablet or desktop PC***
Liquid waste capacity	<ul style="list-style-type: none"> Base model: Up to 750 tests + on-demand access* With optional direct-to-drain: No limit** 	Sample throughput	<ul style="list-style-type: none"> 3.5 hr to first 5 results; 5 results every 5 min thereafter 275 test results in 8 hr; up to 500 test results in 12 hr
Solid waste capacity	Up to 750 tests+ on-demand access*	System calibration	Up to 24 hours
Sample barcode types	Code 39, Code 93, Code 128 (ISBT 128), Interleaved 2 of 5, Codabar, Jan 13, UPC	On-board reagent stability	Up to 60 (also non-continuous) hours

* Allows operator access during system operation; certain restrictions apply
 ** For instruments equipped with optional direct-to-drain pump. Please refer to your local environmental regulations and guidelines
 *** Up to 16 Procleix Panther systems featuring ART can be connected, 6 can be displayed at a time

ASSAY NAME	PATHOGEN DETECTED	REGULATORY APPROVAL
Procleix Ultrio Elite Assay	Two-region HIV-1, HIV-2, HCV, HBV	CE, FDA
Procleix WNV Assay	West Nile virus (lineages 1 & 2)	CE, FDA
Procleix Zika Virus Assay	Two-region Asian & African strains	CE, FDA
Procleix Parvo/HAV Assay	Parvovirus B19 (quantitative), hepatitis A virus (qualitative)	CE
Procleix Dengue Virus Assay	Dengue virus (types 1-4)	CE
Procleix Babesia Assay	Babesia species (B. microti, B. duncani, B. divergens, B. venatorum)	FDA
Procleix HEV Assay	Hepatitis E virus (genotypes 1-4)	CE
Procleix UltrioPlex E Assay	Two-region HIV-1, HIV-2, HCV, HBV, HEV	In development**

Product registration and availability vary by country. For more information, ask your local Grifols representative. **Learn more about the Procleix Panther system featuring ART at www.procleix.com**

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Procleix Panther System
 Featuring ART

Innovation
 that Empowers

Prioritize the way you work

The Procleix Panther system features Automation Ready Technology (Panther ART), which supports labs in their movement towards next-level workflow automation.

The Panther ART is designed to allow donor screening labs to optimize variable workflow needs by offering superior customization with easy, scalable options that help transform the way you work as your lab needs evolve.

Empowering you to control your workflow

- **Accelerate start-up time** - fast operation is supported by an intuitive, user-friendly interface, on-demand access to key components, and 24-hr reagent calibration
- **Increase hands-off time** - use on-demand access for solid and liquid waste management, universal fluids replacement, and uninterrupted sample loading
- **Improve turnaround time** - continuous loading and testing without pausing or stopping for liquid/waste management
- **Achieve greater throughput** - more throughput per square meter than any other instrument in its category, offering more flexibility for planning variable workflows and peak loads
- **Plan your routine** - choose when the system should start, prime itself, perform maintenance, or calibrate, even during off hours

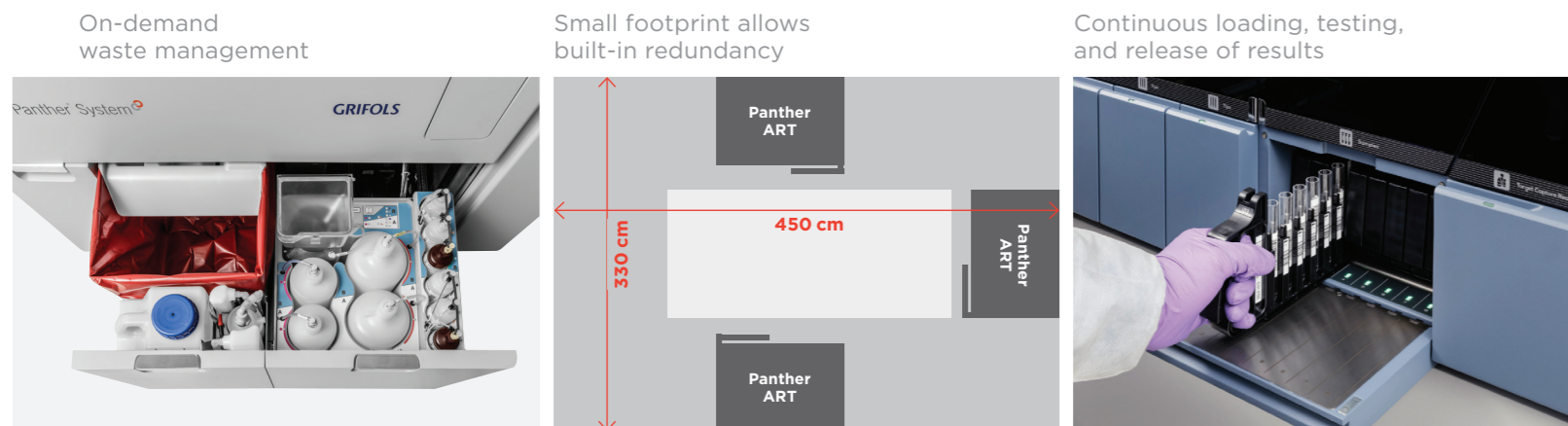
Optimize Your Lab

- Continuous loading, testing, and release of results
- 24-hr calibration
- No end controls
- Up to 4 assays on the same sample

TRUE STAT

3.5 hrs

with no waiting time



Continued innovation with Panther

Enhanced standard features for today's lab

The Procleix Panther System featuring ART comes with significant software and hardware improvements including multiple options that provides the flexibility to laboratories in planning and implementing next-level screening automation.

Base Model

High-sensitivity touchscreen monitor

- Larger, high sensitivity touchscreen monitor with improved ergonomics provides sharp, crisp images, and easy touch for operators wearing gloves

Enhanced system reliability

- Improved software and hardware performance with Windows 10 OS and multiple system optimizations

On-demand access when you need it

- **Donor samples and reagents** - load and unload at any time
- **Waste management** - minimize prep time and remove start/stop conditions when emptying liquid and solid waste. Also available during assay processing without interrupting testing
- **Universal Fluids** - replace fluids at any time with improved layout for effective management; up to 750 tests for solid and liquid waste capacity

Pre-cut panels

- Easier installation of optional features in the lab

Options for the evolving lab

Workflows and routines evolve over time. The Procleix Panther system featuring ART offers optional components that can be installed immediately or as future needs arise - so your lab is always ready.

Optional Components

Remote Dashboard

- Monitor and manage up to 16 instruments at a time with "at-a-glance" real-time run status
- Prioritize activities to plan for future minutes, hours, or days
- Minimize unproductive visits and free up operator's time

◀ Detail of the Remote Dashboard

Data Sharing

- Experience more efficient lab management by allowing data exchange on up to 16 Panther ART instruments
- Prevent duplicate samples and processing of partial assay kits across networked Panther ART instruments
- Help eliminate potential errors with single operator login

MTU Expansion Module

- Increase walkaway time (12+ hours) with fast, on-demand loading
- Improved throughput with expanded MTU capacity of up to 600 tests

Direct-to-Drain Waste Management

- Eliminate the need to handle liquid waste by directly pumping it into the laboratory's drainage system*

Sample Shuttle Module

- Balance your workload and protect sample integrity by connecting to other industry-standard tracks with the CLSI-compatible sample shuttle module
- Reduce sample touch points via a track system that allows samples to travel in and out of the Panther ART without operator's intervention

MTU expansion module available as an optional component.

*Compliance with local regulations is required.

