

TECHNICAL SPECIFICATIONS*

Flow Rates	Contrast Fixed Flow: User defined from 1–45 mL/sec in increments of 1 mL/sec; Variable Flow: User controlled variable range from 1 to 10 mL/sec in 0.1 increments Saline Fixed Rate: 1.0 mL/sec
Volume	User controlled variable range 1–150 mL in increments of 1 mL
Pressure Limits	User defined from 300 PSI to 1200 PSI in increments of 1 PSI
Fill Rate	Manual or automatic refill 2 mL/sec
Syringe Maintainer	35°C ±5° (≥1 hr)
Injection Delay	0.1 sec to 0-99.9 sec
Rise Time	Programmable at 0.1 sec increments from 0.1 to 9.9 sec
Memory	Up to 40 customizable protocols store
Display Screen	26 cm (~10.5") Color Touch Screen
Mounting Options	Pedestal or Table Mount
Power Requirements	Nominal 100–120 VAC, 50 or 60 Hz, 12.75 A; 200–240 VAC, 50 or 60 Hz, 5.3A
ISI Capable	Provides for synchronization of the injection and x-ray exposure
Air Management	Gross Air Detection and Fluid Level Sensing
Hemodynamic Monitoring	Automatic transition to hemodynamic waveform after saline and contrast injection (continuous invasive blood pressure monitoring)

* Specifications as of June 2008



AVA 500 TABL

ORDERING INFORMATION

PRODUCT	CATALOG NUMBER
Avanta Pedestal.....	AVA 500 PEDL
Avanta Table Mount.....	AVA 500 TABL
Multi-Patient Disposables	
MPAT Kit.....	AVA 500 MPAT
Hand Controller.....	AVA 500 HC
Single-Patient Disposables	
Transducer Compatible.....	AVA 500 SPAT L
Non Transducer Compatible.....	AVA 500 SPAT Angio
Single Use	
Display Control Unit Sheath.....	AVA 500 DCOV
Single Use	
Hand Controller Sheath.....	AVA 500 HCS



The Advantages of Automated Contrast Injection

1. Automated Contrast injection in contemporary practice during cardiac catheterization and PCI: Effects on contrast-induced nephropathy. Call, Sacrinty, Applegate, et al. Journal of Invasive Cardiology. 2006; 18(10): 469-474
2. Inverse square law – Vascular and Interventional Radiology, Bakal, Silberzweig, Cynamon, Sprayregen. New York, NY: Thieme Medical Publishers. 2002; 132-134
3. Automated Contrast Injectors for Angiography: Devices, Methodology and Safety. Kaluska, Moussa, Heuser, et al. Catheterization and Cardiovascular Interventions. 2009; 74: 459-464



Bayer HealthCare

Manufacturer:

MEDRAD, INC.
 One Medrad Drive
 Indianapolis, PA 15051-0780 USA
 Ph: +1 (412) 767-2400
 Other: +1 (800) 633-7231
 Fax: +1 (412) 767-4120
www.interventional.bayer.com

European Authorized Representative:

MEDRAD Europe B.V.
 P.O. Box 205
 6190 AE Beek
 The Netherlands
 Ph: +31 (0) 43-3585600



0086

Indications, operating specifications and availability may vary by country. Check with local product representation and country-specific *Information for Use* for your country.

The MEDRAD Avanta Fluid Management Injection System is marketed for the administration of intravascular contrast media and common flushing agents during angiographic procedures. See product Information for Use for specific and complete information.

Bayer, the Bayer Cross, MEDRAD and Avanta are trademarks of the Bayer group of companies.
 Bayer © 2013

MEDRAD is part of Bayer HealthCare 3097-014 2/2013

G.R.02.2013.0033

MEDRAD Avanta®
 Fluid Management Injection System

Control contrast dosage^{1,3}

Automated contrast injection allows precise, pre-set injection volume and delivers contrast rapidly through even small-lumen catheters like those used for radial access procedures.

Reduce radiation exposure²

Allows you to inject and synchronize imaging from the syringe-form hand controller—while standing well away from the image intensifier.

Manage contrast usage

Thanks to the multi-patient disposable tubing design, bulk contrast can be loaded and used with up to 5 consecutive patients, reducing waste.

Preserve Image quality³

Bolus control, injection-imaging synchronization and rapid injection through small lumen catheter results in high-quality images with lower contrast volume.

Procedure-keyed disposables

Flexible long single-patient tubing sets, transducer compatible for constant hemodynamic monitoring, and long non-transducer tubing set for simple angio procedures.

Large, intuitive interface

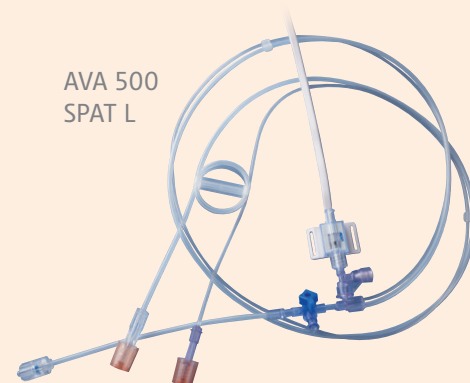
The large touch-screen display is clear, easy-to-read and easy to access. Table brackets give you the flexibility to position the display screen on either side of the table.

Familiar, ergonomic hand held control

With the same form as a syringe, the Avanta hand controller can be set to mimic the response you expect from depressing the plunger—press plunger all the way down for larger contrast injections—press half-way for delivery of half the programmed volume.

World-wide, world-class support

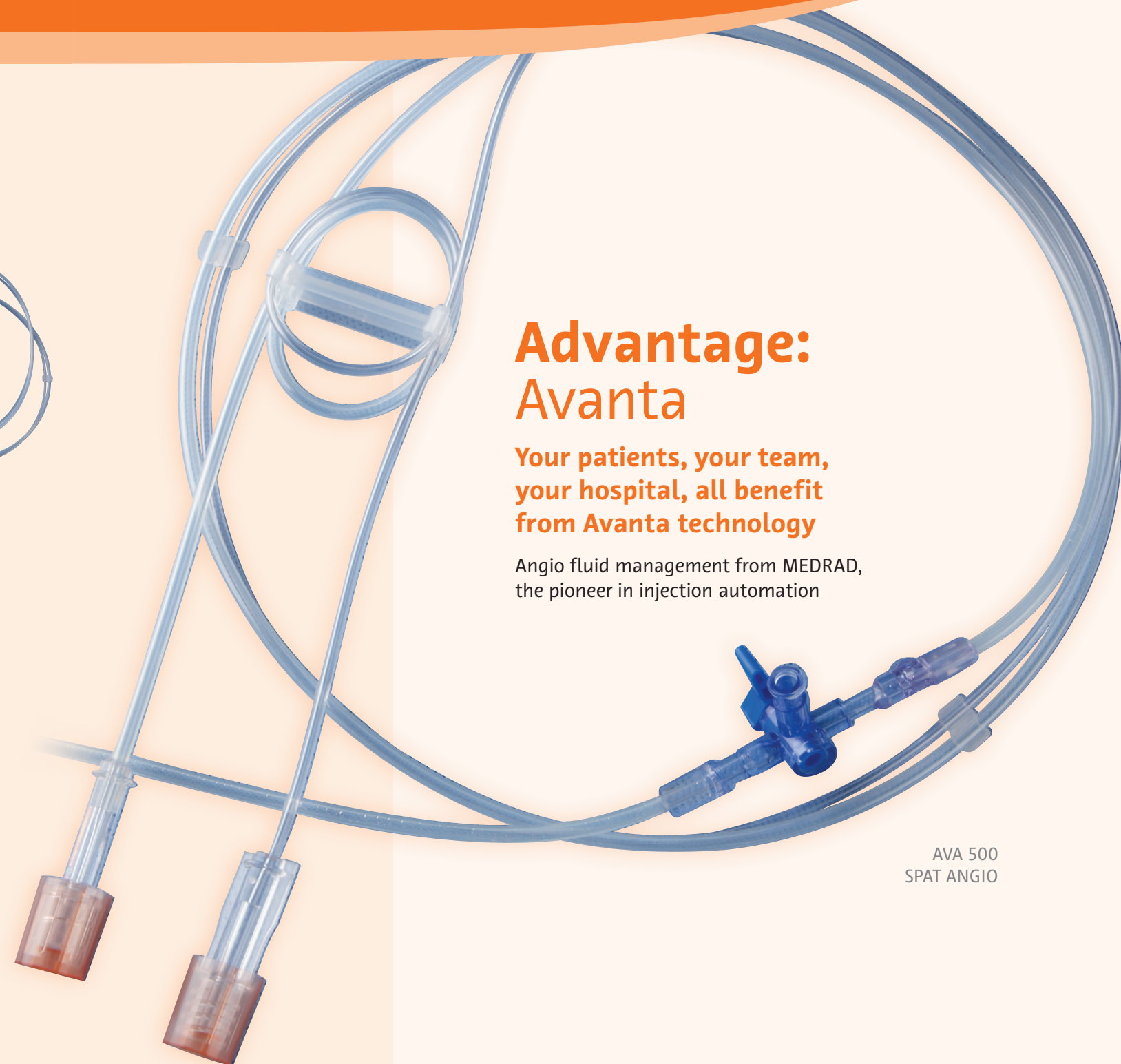
MEDRAD services what it sells, with highly trained, world-wide technical support and a history of fast, capable response.



AVA 500
SPAT L



AVA 500
PEDL



AVA 500
SPAT ANGIO

Advantage: Avanta

**Your patients, your team,
your hospital, all benefit
from Avanta technology**

Angio fluid management from MEDRAD,
the pioneer in injection automation