DxH CONCENTRATED ECO DILUENT

Today's high-volume hematology labs are seeking ways to be more efficient – reducing lab technician tasks and addressing limited lab space to store a high volume of consumables.

The DxH Concentrated ECO Diluent reduces the number of diluent box reloads by **94%**, minimizing daily lab tasks. It also reduces the needed storage space by **94%**. One 10L DxH Concentrated ECO Diluent cubitainer converts to 180 liters of reagent. And with a concentrated diluent pack that is **35% lighter** than other options in the market*, the diluent reduces the risk of overexertion and physical stress.

The DxH Concentrated ECO Diluent uses a Reagent Preparation Instrument (RPI) with a convenient built-in water purification system and an intuitive software system that alerts when the cubitainers need changing. Developed to fit the DxH 900 Connected Workcell with high throughput, the Concentrated ECO Diluent is compatible with workcell DxH 900-2, DxH 900-2 Slidemaker Stainer, DxH 900-3 and DxH900-3 Slidemaker Stainer. The diluent is specifically formulated to be eco-friendly (cyanide-free and low formaldehyde) and is packaged to significantly reduce waste.

The eco-friendly solution to achieve optimal inventory management

- 18x concentrated for optimal inventory management
- 35% lighter than competitor product*
- Minimized tasks with reduced diluent reload
- Built-in water purification system

RPI-ECO21 Instrument	
Instrument size	L 30.5 in (775 mm) x W 24.4 in (620 mm) x H 29.5 in (750 mm)
Empty weight	236 lbs. (107 Kg) including Millipore WPU AFS-24
Dilution method	Electrical Conductivity and Temperature measurement (EC-T)
Conductivity production range	Upon request (indication 10 -20 mS/cm @25°C)
Production capacity	~20 L/hr. peak (for 3 hours) <17 L/hr. continuous (excluding lot-change and service)
Number of DxH concentrated ECO Diluent	2 x 10L, hot swappable for continuous 360L of diluted diluent
Display specifications	154 x 90 mm (7 in), 1024 x 600 resolution
Storage medium	Onboard memory & data export storage (USB)
Stored data	Batch production and reagent traceability information
Data on Cubitainer NFC tag	Reagent type, dilution target, origin, production date, lot number, ID, shelf life, remaining volume

*~31 pounds per Beckman Coulter cubitainer compared with ~48 pounds from our competitor

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Eco-friendly DxH ECO Reagents to be used (cyanide-free and low formaldehyde ≤2 ppm) DxH Concentrate ECO Diluent	
Cubitainer positions and orientation	2, upright for use in the diluter
Cubitainer volume	10L
Concentration ratio	18x
Storage temperature	Displayed in GUI and monitored (not controlled)
Intra lot cubitainer switching	Uninterrupted production

Electrical requirements	
Mains voltage	115 or 230V (± 10%), 50-60 Hz (± 3%)
Fuse EU	2x 3.15A T (Slow blow)
Fuse USA	2x 6A T (Slow blow)
Power consumption	500 VA

Built in Water Production Unit	
Water Purification Unit (WPU)	Merck Millipore AFS-24
Feed water temperature	10 - 30°C
Input water connection	1x John Guest PM Acetal fitting 8 mm
Produced water quality	Clinical laboratory reagent water, conductivity ≥ 1MΩ/cm

Input Water Parameters	
Pressure	1 to 6 bars
Flow rate	> 5 L/min at 2 bars
Type	Potable tap water
Temperature	10 – 30°C
Conductivity	100 – 2000 µS/cm @ 25°C
pH	4 - 10
Langelier Saturation Index (LSI)	< 0.3
Free total chlorine	< 3 ppm

Concentrated Diluent Pack Control Process	
Control method	QC cycle using RPI-Check
Frequency	≥1x per 24 hr. in manual start and time scheduled

To learn more about our eco-friendly hematology solution visit

beckmancoulter.com/eco-reagents

Beckman Coulter is a distributor of RR Mechatronics products. RPI water purification system is manufactured by Life Science business of Merck KGaA, Darmstadt, Germany. The Life Science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada. Not all products are available in all countries.
Product availability and regulatory status depend on country registration per applicable regulations.
Please contact your Beckman Coulter sales representative for more information.

For Beckman Coulter's worldwide office locations and phone numbers, please visit www.beckmancoulter.com/contact
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