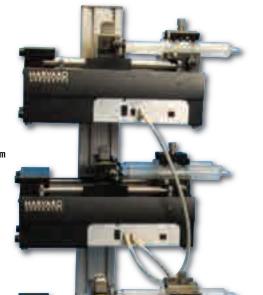
Mixture/Dose Delivery System



PC2 70-4102 PHD ULTRA™ Gradient System with Stand

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KEY FEATURES

- Easily run binary or ternary gradients without a PC
- Combine multiple flow streams into one common output
- No stopping experiment to fill syringes with different mixtures

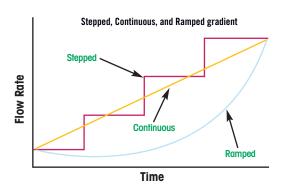
APPLICATIONS

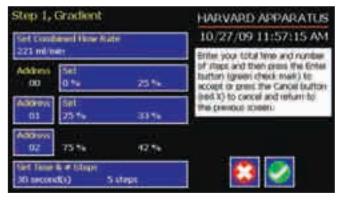
- Serial Dilutions of reaction dosing solutions
- Serial Dilutions for drug infusion experiments
- Serial Dilutions for nutritional infusion experiments
- Serial Dilutions for mixing polymers in electrospinning
- Chromatography
- FIA systems

The PHD ULTRA™ Gradient Systems allows you to quickly and easily run binary or ternary mixtures automatically without a PC. The Method is totally programmed from a master controller pump, for easy set-up. The intuitive program interface makes simple to complex mixing easy. The Gradient Profile is used to combine multiple flow streams from different pumps into a common output stream. The flow can be smooth and continuous or stepped. No stopping the experiment, mixing different % volume mixtures and placing new syringes into the pumps. Push one button and it all happens automatically.

Binary and ternary gradient systems are available with or without a stand. Individual Satellite units are also available for purchase separately.

For more information on the PHD ULTRA™ Syringe Pumps see page 18-22. For more information on the PHD ULTRA™ Satellite units see page 21.





Mix/Dose Delivery System Specifications	
ТҮРЕ	Microprocessor multiple syringe, infusion only, infusion/ withdrawal or infusion/withdrawal programmable
ACCURACY	±0.25%
REPRODUCIBILITY	±0.05%
SYRINGES:	
Туре	Plastic, glass or stainless steel
Size Minimum	0.5 μΙ
Size Maximum	140 ml
FLOW RATE:	
Minimum	1.50 pl/min
Maximum	216.0 ml/min
DISPLAY	4.3" WQVGA TFT Color Display with Touchpad
CONNECTORS:	
RS-232	9-pin D-Sub Connector
RS-485	6-position IEEE-1394
USB	Туре В
I/0 & TTL	15-pin D-Sub Connector
Footswitch	Phono jack
LINEAR FORCE	34 kg (75 lbs) @ 100% force selection
STEP RESOLUTION	0.082 µm/µstep
VOLTAGE RANGE	Universal input 100/240 VAC, 50/60 Hz
DIMENSIONS, H x W x D	10.16 x 30.48 x 21.59 cm (4 x 12 x 8.5 in)
WEIGHT	4.5 kg (10 lbs)
CERTIFICATIONS	CE, ETL (UL, CSA), WEEE, EU RoHS & CB Scheme

Order #	Product
PC2 70-4101	PHD ULTRA™ Gradient System 1 Master/1 Satellite with Stand
PC2 70-4102	$PHD\ ULTRA^{^TM}\ Gradient\ System\ 1\ Master/2\ Satellites\ with\ Stand$
PC2 70-4106	$PHD\;ULTRA^{\scriptscriptstyleTM}Gradient\;System\;1\;Master/1\;Satellite\;without\;Stand$
PC2 70-4107	${\sf PHD\; ULTRA^{\scriptscriptstyle TM} Gradient\; System\; 1\; Master/2\; Satellites\; without\; Stand}$

*High Force and Push-Pull Gradient Systems are available.