



Intelligent Pump HI-12-33

Pulse Control Fractionating High Pressure Pump Intelligent Pump HI-12-33

Through real time pulsatile control this pump can dispense at rates up to 50mL/min (at 10MPa).

Features

- can produce high flow rates with high pressure
- easy to read backlighted LCD displays show real-time flow pressures
- self-regulating mechanism greatly reduces pressure fluctuations
- column integrity protected by convenient upper-limit pressure switch
- low-pressure limit switch allows automatic shutdown upon leak detection
- computer control of 2 or more units through RS232 interface possible

Product name	Intelligent Pump
Part number	HI-12-33
Max pressure*1	20MPa (~25mL/min) 10MPa (~50mL/min)
Flow rate range	0.1~50.0mL/min
Flow per stroke	154 μ l
Flow accuracy	\pm 0.3%
Features	Active pulse reduction, Flow volume calibration, Upper pressure limiter, Lower pressure limiter, gradient flow*2
Pressure accuracy	\pm 5%
Wetted materials	SS, Sapphire, Rubby, PTFE, PCTFE
Remote control	Input: Pump on/off, Output: Error signal
Communication	RS232C
Dimensions (mm)	184(H) x 110(W) x 395(D)
Weight	7.5kg
Order code	SIP-P2104

* The specifications and product design may change without prior notice.

* For custom specifications, contact FLOM.

*1 Maximum pressure does not guarantee the continuous pump operation at the highest pressure. It may result in damage of the pump.

*2 At least 2 pumps needed for gradient flow.



Dual Pump HP-12-33

Fractionating High Pressure Pump Dual Pump HP-12-33

A general-use, high pressure and high flow rate fractionating pump with exceptionally stable pressure and flow. Flow rates up to 50mL at 10MPa (10MPa).

Features

- can produce high flow rates with high pressure
- easy to read backlighted LCD displays show real-time flow pressures
- column integrity protected by convenient upper-limit pressure switch
- special steady-state pressure mode provides stable flow*2
- RS-232C interface for computer control

Product name	Dual Pump
Part number	HP-12-33
Max pressure*1	20MPa(~25mL/min) 10MPa(~50mL/min)
Flow rate range	0.1~50.0mL/min
Flow per stroke	154ul
Flow accuracy	\pm 0.5%
Features	Flow volume calibration, Steady-state pressure mode, Set volume dispensing*2
Pressure accuracy	\pm 5%
Wetted materials	SS, Sapphire, Rubby, PTFE, PCTFE
Remote control	Input: Pump on/off, Output: Error signal
Communication	RS232C
Dimensions (mm)	184(H) x 110(W) x 395(D)
Weight	7.5kg
Order code	SDP-P1102

* The specifications and product design may change without prior notice. Consult with your local distributor for the latest specifications.

* For custom specifications, contact FLOM.

*1 MMaximum pressure is only sustained intermittently. Continuous pump operation at maximum pressure cannot be guaranteed.

*2 Even when steady-state mode is operative, there will be some pulse fluctuations within the margin of error.