

# CellFeeder™ G2

CellFeeder™ G2 Pump is a HMI-controlled pumping unit for CelCradle® for different applications. The CellFeeder™ G2 Pump is designed to simplify user's operation such that daily feeding volume and pH/DO monitoring are controlled. It simplifies culture operations, reducing calibration and calculation steps as usually required in conventional peristaltic pumps.

The two front-mounted, fixed-speed peristaltic pumps provide for convenient liquid addition/removal during the culture's recirculation process and automated pH/DO control.



## Applications:

- pH/DO Control
- Adjusting pH value to optimal conditions
- Recirculation process mode

## Features:

1. Sophisticated software
2. Keeps record of the pH/DO data
3. pH control and monitoring
4. Reagent addition for pH control
5. Automated re-circulation of external medium for medium exchange/replenishment during culture
6. Automated pH/DO control of culture environment for optimum cell growth
7. Automatically graphs data in excel-based software
8. 21CFR Part 11 enabled when used with optional Esco Aster Compliant Workbook and interface software package from Ofni Systems (ExcelSafe™).
9. Optional single-use sensor for in line monitoring

## SPECIFICATIONS

|                     |                     |   |             |     |
|---------------------|---------------------|---|-------------|-----|
| Dimension           |                     | 351MM (L) X 310MM (D) X 400MM (H)         |             |     |
| Weight              |                     | 18KG                                      |             |     |
| Power               |                     | 120 WATTS                                 |             |     |
| Control Software    |                     | TIA Portal V16 Siemens                    |             |     |
| Working Environment |                     | Ambient temperature                       |             |     |
| ph                  | Length and diameter | S120 mm; 12 mm                            |             |     |
|                     | Range               | 0-12                                      |             |     |
|                     | Precision           | ± 0.01                                    |             |     |
|                     | Probe               | Mettler Toledo pH Sensor InPro3253i       |             |     |
|                     | Control             | Liquid addition                           |             |     |
| DO                  | Length and diameter | 120 mm; 12 mm                             |             |     |
|                     | Range               | 0-100%                                    |             |     |
|                     | Precision           | ± 0.01                                    |             |     |
|                     | Probe               | Mettler Toledo DO Sensor InPro6860i       |             |     |
|                     | Control             | TBD                                       |             |     |
| Peristaltic Pump    | Configurations      | Recirculation process or reagent addition |             |     |
|                     | Flow Rate           | Flow Rates (ml/min) Tubing 1.6mm wall     |             |     |
|                     |                     | Tube bore (mm)                            | Speed (rpm) |     |
|                     |                     |   | (ml/rev)    | 200 |
|                     |                     | 0.5                                       | 0.02        | 4.6 |
|                     |                     | 0.8                                       | 0.04        | 8.6 |
|                     |                     | 1.6                                       | 0.14        | 28  |
|                     |                     | 2.4                                       | 0.29        | 58  |
|                     |                     | 3.2                                       | 0.47        | 95  |
| 4.0                 | 0.67                | 135                                       |             |     |
| 4.8                 | 0.85                | 170                                       |             |     |

\*Specifications subject to change