

## Chemical Dosing Pumps – DLX Series



Model DLX-MA/M



Model DLXB-MA/M

### DLX and DLXB Series Chemical Dosing Pumps

DLX series chemical dosing pumps offer a wide choice of models to suit most applications. Models run from a base manual version through to integral pH/ORP/Chlorine dosing systems with options of ON/OFF or proportional control with hysteresis and delay functions.

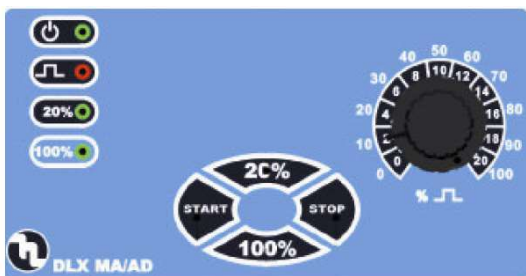
DLX pumps includes a HRS (High Rating System) feature providing flexibility for operators to select pressure and flow rates. An example of this flexibility is with the standard 5lph @ 7Bar pump having flexibility to deliver between 4lph @ 10Bar and 24lph @ 1Bar.

### Common Features

- Wall mount (DLX) or foot mount (DLXB) versions
- Plastic casing rated to IP65
- Manual air-bleed pump head
- Level control input (with optional probe) in -/M series (DLX-MA-AL xx-xx series)
- Standard power 220-240VAC 50.60Hz, optional 12VDC & 24VDC
- Wetted surfaces:
 

|                 |                     |
|-----------------|---------------------|
| Pump head       | PP (polypropylene)  |
| Diaphragm       | PTFE                |
| Lip Valves      | Viton or EPDM       |
| Injection Valve | PP-Viton or PP-EPDM |

### DLX MA/AD and DLXB-MA/AD



Manual flow rate adjustment from 0-100%  
Analogic Dosing Pump

### DLX MA/M and DLXB-MA/M



Microcontroller Dosing Pump - 3 digits display

- Manually adjustable flow rate from 0-100%
- Level control and flow alarm setting (supplied without probe)
- High Rating System – HRS, an advanced pressure control equipment grants the highest yield at different working conditions.

## Chemical Dosing Pumps – DLX Series

### DLX MF/M and DLXB-MF/M



#### Multifunction Dosing Pump

Operating Functions; ppm e mA – reed contact or mA input.

Manual – 1xN; 1xN (M); 1N

Additional Features:

- Flow alarm
- Level control (without probe)
- Relay output
- Buzzer
- Clock
- Timer

### DLX-pH/RX-MBB and DLXB-pH/RX-MBB



#### Integral Analytical Solenoid Dosing Pump

- Integral backlit LCD display
- Selectable pH/ORP
- Alarm O/P
- 4-20 mA output
- Push button calibration and configuration
- pH/ORP electrodes
- IP65 acid resistant enclosure
- PT100 temp sensor
- Voltage free relay O/P N/O N/C

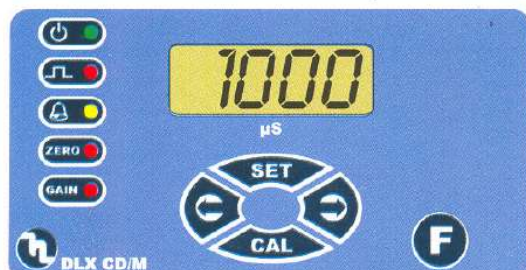
### DLX-pH/RX-CL and DLXB-pH/RX-CL



#### Integral Analytical Solenoid Dosing Pump and Controller

- Integral backlit LCD display
- Selectable pH/ORP free chlorine controller
- Alarm O/P
- 4-20 mA output
- Push button calibration and configuration
- Accepts standard pH/ORP electrodes
- IP65 acid resistant enclosure
- PT100 temp sensor
- ON/OFF – proportional operation modes

### DLX-CD/M and DLXB-CD/M

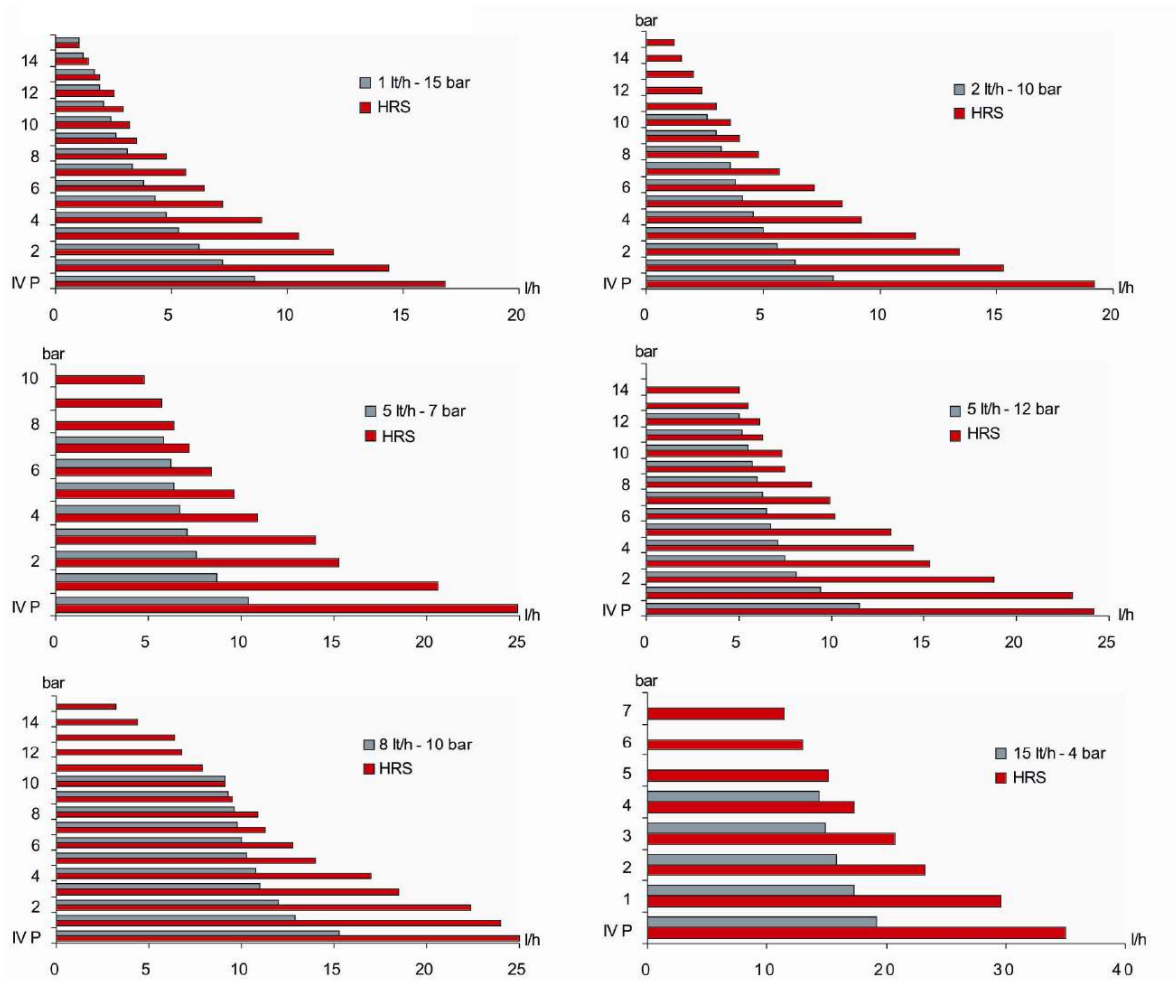


#### Microcontroller dosing pump with conductivity control and regulation instrument built-in

- LCD display
- ON/OFF – proportional modes
- 0-1.000mS (K5) or 0-10.00 mS (K1) measuring range
- 4-20 mA output
- Microprocessor technology
- Display resolution 1 µS; 10 µS
- Manual temperature compensation 0-100°C
- Hysteresis programming of set point
- Delay programming of set point

## Chemical Dosing Pumps – DLX Series

Flow rate VS Pressure Diagrams

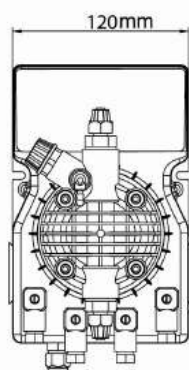


By setting working pressure (within a preset range of values) the pump controls the flow rate at operator's desired working values.

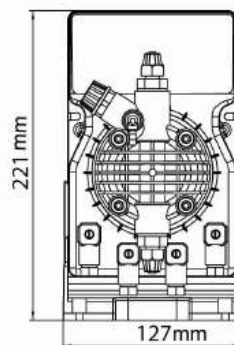
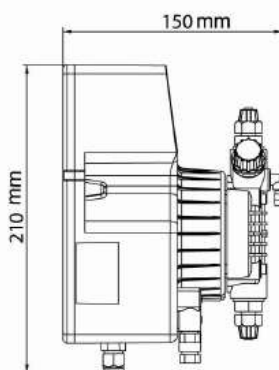
| Type  | Max Flow l/hr | Max Press Bar | Max imp./min | Output per Stroke ml | Stroke mm | Suction Height m | Power Consumption Amps | Current Consumption Amps | Net Weight kg |
|-------|---------------|---------------|--------------|----------------------|-----------|------------------|------------------------|--------------------------|---------------|
| 01-15 | 1             | 15            | 102*         | 0.14                 | 0.8       | 2.0              | 37                     | 0.16                     | 2.3           |
| 02-10 | 2             | 10            | 100*         | 0.33                 | 0.8       | 2.0              | 37                     | 0.16                     | 2.3           |
| 05-07 | 5             | 07            | 100*         | 0.83                 | 1.0       | 2.0              | 37                     | 0.16                     | 2.3           |
| 05-12 | 5             | 12            | 100*         | 0.83                 | 1.0       | 2.0              | 58                     | 0.25                     | 2.9           |
| 08-10 | 8             | 10            | 120*         | 1.11                 | 1.4       | 2.0              | 58                     | 0.25                     | 2.9           |
| 15-04 | 10            | 04            | 120*         | 2.08                 | 2.2       | 2.0              | 58                     | 0.25                     | 2.9           |

\* Max 240 imp./min with HRS mode

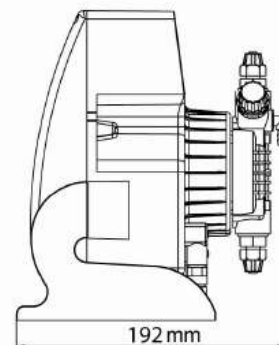
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**DLX wall mounted**



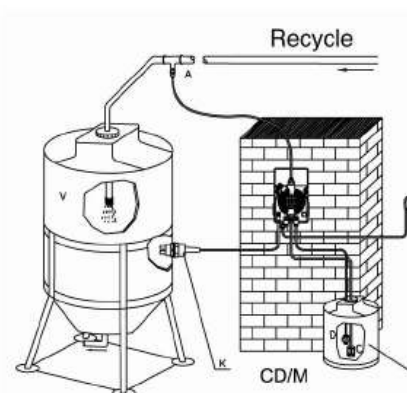
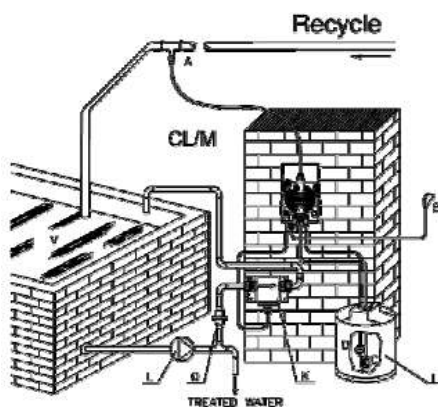
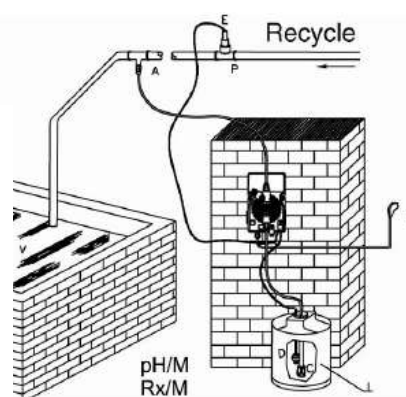
**DLXB foot mounted**



*Upon request: Manual stroke length adjustment (only DLXB Series)*

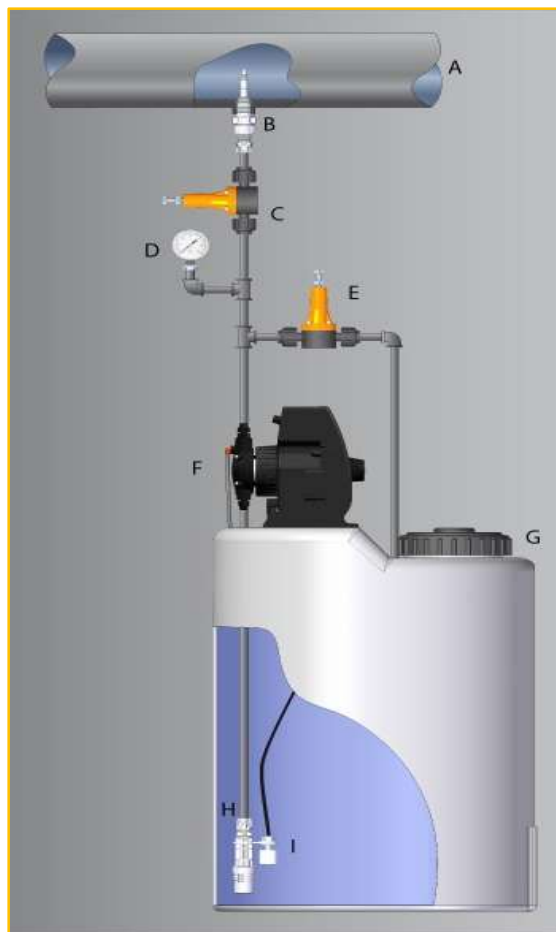
### Typical Installations

- A - Injection valve
- B - Power Supply
- C - Filter
- D - Level probe
- I - Chemical tank
- K - Water meter (MFM) – Chlorine cell (CLM) – Conductivity probe (CD/M)
- P - Electrode holder (pH/M; Rx/MO)
- Q - Flow sensor (MF/M) – Flow regulation valve (CL/M)
- V - Process plant



## Chemical Dosing Pumps – DLX Series

- A – Main pipeline
- B – Injection valve
- C – Backpressure valve
- D – Pressure gauge
- E – Relief valve
- F – Dosing pump
- G – Tank
- H – Foot filter
- I – Level switch



### Available Accessories



CP – Manual air bleed pump head



CP – 20L



CP – PVDF manual air bleed pump head



CP – Plexiglas®



CP – Automatic air bleed head



Kit



CP – 1L



CP – PVC 30L, 50L, 80L



CP – PVC 20 bar



Valve & Valve seat kit



## Etatron pH, ORP and ISE Electrodes

We provide a wide range of pH, Ion Selective and ORP/Redox electrodes to directly connect to most models in the DLX series. With many installations, there is no need for a separate controller to automate operation, particularly where only a single pump or dosing liquid is used. All that is required is to select the appropriate electrode, connect to the DLX pump and program a set point for whatever parameter you wish to control. The pump will then dose your chemical into the tank or pipework, monitor the pH or ORP value and add chemical automatically until the pre-set level is reached.

Electrode selection is straightforward according to what parameter is to be measured, the type of liquid substrate, and the degree or concentration of fouling agents in the monitored liquid.

Common applications include pH adjustment in waste waters and liquid chlorine dosing for water sanitation.



**IJ-40**  
pH  
BULLET

**IJ-44**  
pH  
SPEAR

**IJ-46**  
pH  
FLAT FLOW



**IJ-F IJ-CN IJ-Br IJ-I**  
Fluoride Cyanide Bromide Iodide Chloride  
Others on request



**IJ-64**  
Pt ORP

**IJ-Ag**  
Silver Billet

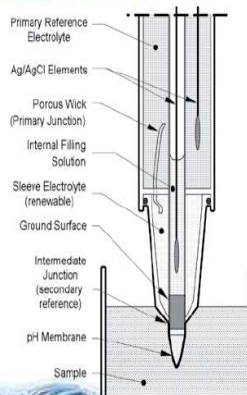
**IJ-Au**  
Gold ORP

**EXPECT**  
much longer life  
fast, accurate performance  
outstanding simplicity & value  
outstanding customer service

The **IJ KOALA SERIES** has become the benchmark in heavy duty, all purpose, super-long life sensor technology.

- Unique renewable intermediate junction protects the primary reference to defeat contamination.
  - User selectable electrolyte replacement
- Ground glass annular junction overcomes clogging
  - Perfect for difficult samples
  - pH 0 - 14, Temp. 0 - 100/212°
- Temperature compensation options
- Automated glass blowing for consistent results
- Unequalled in food, waste-water, wine, industrial, mining, plating and demanding lab environments
  - Toughened glass membrane
  - Flexible polymer body with two sleeves

### INTELLIGENCE TO THE CORE



**EXPECT**  
technical application support  
outstanding customer service  
40 years experience  
flexible stocking options  
extensive quality control  
competitive pricing

Underpinning lonode's reliability and performance is a proprietary method of automated glassblowing which provides precise, time proven results in a variety of different shapes, including more complex styles such as spear and bullet membranes. The process utilizes a uniform mass of glass and mechanical engineering to ensure each sensor has consistency of production, whilst the lonode glass formula itself resists dehydration and breakage without sacrificing the speed or accuracy required in demanding laboratory environments.