

Your partner in  
Water Treatment Industry  
**SINCE 1990**









# India's Premium Dosing Pumps

## Dosing Pumps

### SPECIFICATIONS

### FEATURES

-  CE Certified
-  Ingress Protection 65
-  Inbuilt Air Release Valve
-  Double ball NRV
-  Solid PTFE Diaphragm for longer life

MODEL	 EDOSE	 EDOSE NEO	 EDOSE MEGA	 EDOSE PRO
CAPACITY	1.5,3,6,10 LPH	1.5,3,6,10 LPH	40 LPH	1.5,3,6,10 LPH
DIGITAL DISPLAY	NO	YES	YES	YES
LEVEL SWITCH	OPTIONAL	OPTIONAL	OPTIONAL	YES
4-20 mA INPUT	NO	OPTIONAL	OPTIONAL	YES
INTERVAL DOSING	NO	YES	YES	YES
BATCH DOSING	NO	YES	YES	YES
RELAY OUTPUT	NO	OPTIONAL	NO	YES
PULSE INPUT	NO	YES	NO	YES
SUCTION TUBING	4/6 mm	4/6 mm	8/10 mm	4/6 mm
POWER SUPPLY	230 V AC	230 V AC	230 V AC	230 V AC
MOUNTING	TANK/WALL	TANK/WALL	TANK	TANK/WALL

Also available in PVDF for Sulphuric Acid Applications

# FILTRA CONSULTANTS AND ENGINEERS LTD.

Gala No. 2 & 3, Ground Floor, Neminath Industrial Estate No. 2, Navghar, Vasai (East), Dist.: Palghar - 401 219  
 Tel.: +91 8691009127/26 Email: [filtraw@gmail.com](mailto:filtraw@gmail.com) Website: [www.ewater-treatmentindia.com](http://www.ewater-treatmentindia.com)



# INDIA'S FIRST pH/ORP CONTROL DOSING PUMP

**@dose** Neutra | **@dose** Chloro  
Electronic Metering Pump | Electronic Metering Pump

## Dosing Pumps

### SPECIFICATION

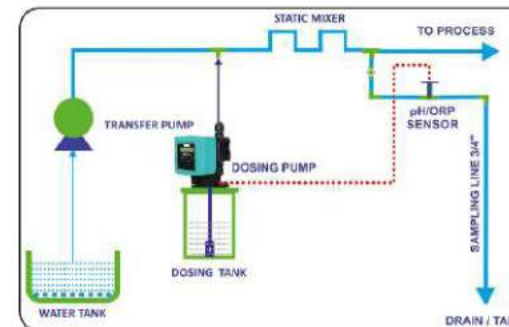
#### pH/ORP SENSOR

pH Range	:2-11 pH
ORP Range	:-1000 to +1000 mV
Body Material	:Glass
Max. Operating pressure	:5 kg/cm <sup>2</sup>
Cable Length	:5 mtrs
Mounting Thread	:3/4" BSPM

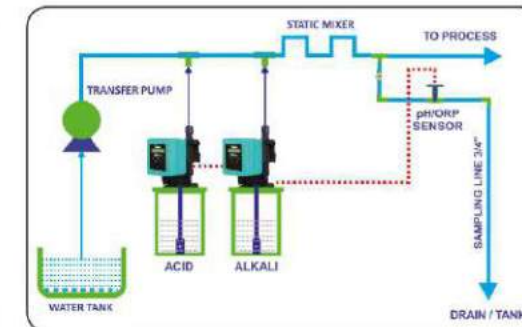
#### DOSING PUMP

ELECTRICAL:	:230 V AC [ +/- 20% ] 50HZ
SUCTION TUBING	:4/6 mm
DISCHARGE TUBING	:4/6 mm
DOSING RATE	:1.5/3/6/10 LPH at 4 Kg/cm <sup>2</sup>
Wetted Parts	:PP/PVDF







#### SCHEMATIC



#### DUAL SIDE pH CORRECTION



### FEATURES

-  Inbuilt Transmitter
-  Loaded with Fuzzy logic
-  16x2 Dual light LCD Display
-  Non-tactile keypad
-  Suitable for Acid/Alkali Dosing
-  Suitable for Chlorination/Dechlorination Dosing

Also available in PVDF for Sulphuric Acid Application

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# India's Premium Dosing Pumps



## Mechanical Dosing Pumps

Mechanically actuated Diaphragm Metering Pump

### SPECIFICATION

MODELS	CAPACITY	PRESSURE	STROKES/MINUTE	END CONN.	MOTOR RATING
@dose MAX 50	50 LPH	5 kg/cm <sup>2</sup>	108	3/4"-DN 20	0.18 KW
@dose MAX 100	100 LPH	5 kg/cm <sup>2</sup>	108	3/4"-DN 20	0.18 KW
@dose MAX 200	200 LPH	5 kg/cm <sup>2</sup>	108	3/4"-DN 20	0.18 KW
@dose MAX 300	300 LPH	5 kg/cm <sup>2</sup>	108	3/4"-DN 20	0.37 KW
@dose MAX 400	400 LPH	5 kg/cm <sup>2</sup>	142	3/4"-DN 20	0.37 KW

Motors for 50,100 and 200LPH are 0.25HP, 415V, 3 Phase, 50Hz, IP55, 1340 RPM

Motors for 300 and 400LPH are 0.5HP, 415V, 3 Phase, 50Hz, IP55, 1370 RPM

### FEATURES

- High efficiency PTFE Diaphragm
- Compact size
- Zero leakage design
- Bath lubrication for all drive component
- Suction lift upto 2.5 MWC

Also available in PTFE for Sulphuric Acid Application

### SCOPE OF SUPPLY

- Metering Pump
- Suction and Discharge connectors
- Suction Filter Cum Foot Valve
- Injection / Back Pressure Assembly
- Instruction Manual

### MATERIAL OF CONSTRUCTION

- Dosing Head : Polypropylene/PVC/PTFE
- Diaphragm : PTFE faced Hypalon
- NRV Ball : PTFE
- Suction/Discharge Ass. : Polypropylene/PVC/PTFE
- Injection Valve Assembly : Polypropylene/PVC/PTFE
- Suction filter Assembly : Polypropylene/PVC/PTFE

# FILTRA CONSULTANTS AND ENGINEERS LTD.

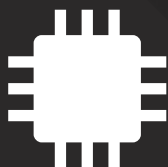
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# INDIA'S FIRST AUTO CHLORINATOR WITH CHLORINE SENSOR



DIRECT ppm VALUE ON  
DISPLAY



LOADED WITH  
FUZZY LOGIC



16X2 DUAL LIGHT  
LCD DISPLAY



NON-TACTILE  
KEYPAD



SUITABLE FOR  
CHLORINATION/  
DECHLORINATION



**@dose Chloro+**  
Electronic Metering Pump

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## TECHNICAL SPECIFICATIONS

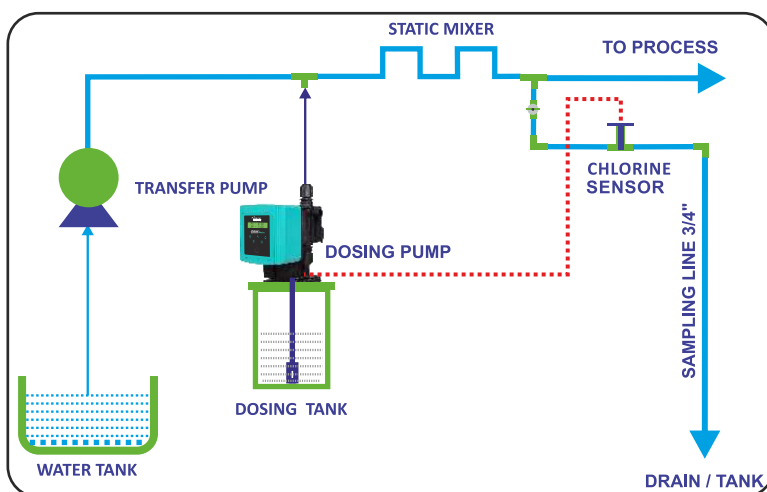
### CHLORINE SENSOR

Measurement Range	: 0-5 ppm
Operating Pressure	: 0-1 bar
Output	: 4-20 mA
Power Supply	: 09-30 V DC (Recommended 12V)
Cable Length	: 5 meters

### FEATURES

- Automatically compensate for the change in feed chlorine
- With Fuzzy Logic-Most accurate and stable controller
- Level switch interlock
- RS485 Output (Optional)
- Built in ARV with separate discharge point to prevent chemical spillage
- Remote monitoring with modem (Optional)

### SCHEMATIC



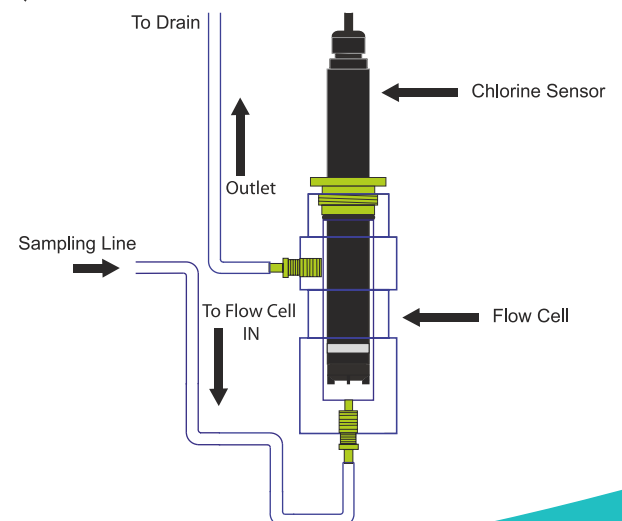
### DOSING PUMP

Electrical	: 230 V AC (+/- 10%) 50 HZ
Suction Tubing	: 4/6 mm
Discharge Tubing	: 4/6 mm
Dosing Rate	: 6/10 LPH @ 4 Kg/cm <sup>2</sup>
Wetted Parts	: PP

### SCOPE OF SUPPLY

- Dosing Pump
- 3 Meter Suction and Discharge Tubing
- Suction Filter Cum Foot Valve
- Injection Valve Assembly
- Chlorine Sensor
- Flow Cell
- Electrolyte and Membrane Cap

### SENSOR AND FLOW CELL



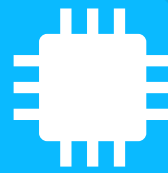
# INDIA'S FIRST FLOW BASED DOSING PUMP



**@dose Flo**  
Electronic Metering Pump

10.10m<sup>3</sup>

INBUILT FLOW  
TOTALIZER



LOADED WITH  
FUZZY LOGIC



16X2 DUAL LIGHT  
LCD DISPLAY



USER FRIENDLY  
SETTINGS



PPM  
SUITABLE FOR  
FLOW BASED DOSING

Another quality product from the  
makers of popular **@dose** pumps

**INITIATIVE**  
ENGINEERING

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## Technical Specifications

### FLOW SENSOR

Type	:Full Bore Turbine
Fluid	:Water
S.G of Measuring Media	:1
Max. Operating pressure	:5 kg/cm <sup>2</sup>
Cable Length	:3 mtrs
Accuracy	:± 2% of full scale

### FEATURES

- Automatically compensate for the changes in feed flow
- With Fuzzy Logic-Most Accurate and Stable Controller
- Level switch Interlock (Optional).
- RS 485 Output( Optional)
- Built In ARV With separate Discharge point to prevent chemical spillage.

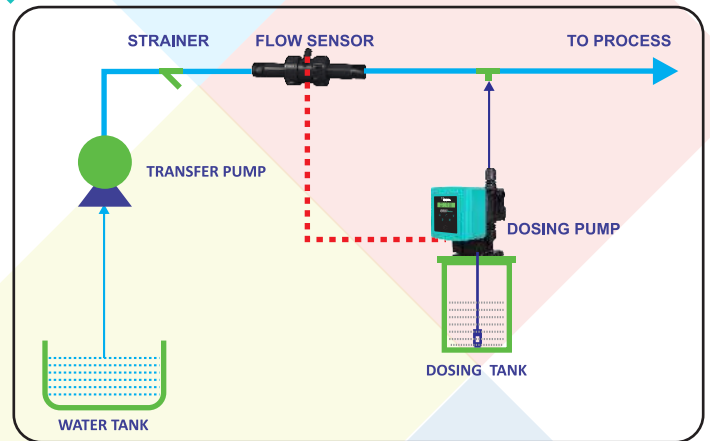
### SCOPE OF SUPPLY

- Metering Pump
- 3 Meter Suction and Discharge tubing
- Suction Filter Cum Foot Valve
- Injection / Back Pressure Assembly
- Flow Sensor with Y Type Strainer

### DOSING PUMP

ELECTRICAL:	:230 V AC [ +/ - 20% ] 50HZ
SUCTION TUBING	:4/6 mm
DISCHARGE TUBING	:4/6 mm
DOSING RATE	:1.5/3/6/10 LPH at 4 Kg/cm <sup>2</sup>
Wetted Parts	:PP

### SCHEMATIC



### APPLICATION

- Poultry Feed
- Chlorination
- Cooling Tower
- Water and Waste Water Treatment
- Pharma Industry

# AUTO pH CORRECTION WITH HIGH CAPACITY MOTORIZED PUMP



## @dose Neutra VFD



INBUILT pH TRANSMITTER



LOADED WITH FUZZY LOGIC



3.5" LCD DISPLAY



SUITABLE FOR ACID/ALKALI



VFD CONTROLLER FOR AUTOMATIC pH CORRECTION

## TECHNICAL SPECIFICATIONS

### pH SENSOR

Measurement Range : 2-11 pH

Body Material : Glass

Max.Operating Pressure : 5 kg/cm<sup>2</sup>

Cable Length : 5 mtrs

Mounting Thread : 3/4" BSPM

### FEATURES

Automatically compensate for the change in feed pH

With Fuzzy Logic-Most accurate and stable controller

Level switch interlock

RS485 Output (Optional)

Also available in PTFE for Sulfuric Acid applications

### DOSING PUMP

Electrical : 415 V AC , 50 HZ

TYPE : Motorized

Capacity : 50/100/200/300/400 @ 5kg/cm<sup>2</sup>

Control : Stroke Length / Frequency

Wetted Parts : PP/PTFE

### CONTROL PANEL

M.O.C : MS Duly Powder Coated

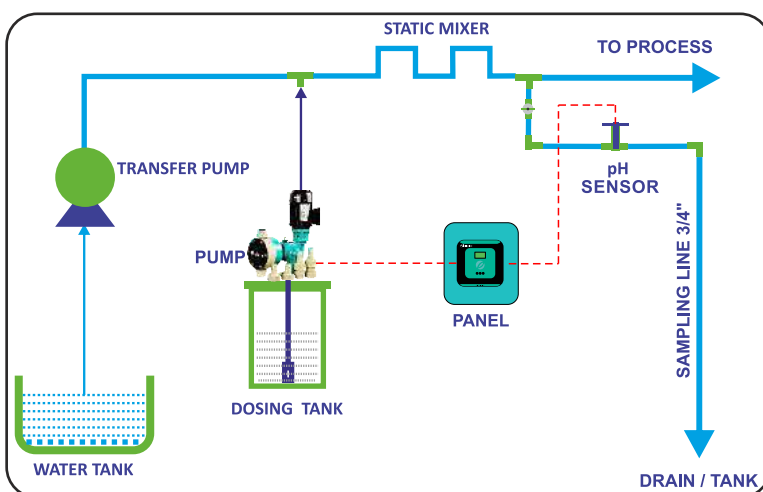
TYPE : Wall Mounted

Display : 3.5" LCD

Control Type : VFD Based

Mode : Proportional / PID

### SCHEMATIC



### SCOPE OF SUPPLY

Metering Pump

Control Panel with VFD

Suction Filter Cum Foot Valve

Injection/ Back Pressure Assembly

pH Sensor with Holder.

# agridose

Automatic pH/EC correction system



LOADED WITH  
FUZZY LOGIC



ISOLATION TRANSFORMER  
FOR SURGE PROTECTON



16X2 DUAL LIGHT  
LCD DISPLAY



NON-TACTILE  
KEYPAD



SUITABLE FOR EC BASED  
FERTILIZER DOSING

$H_2SO_4$

PVDF MOC FOR  
SULPHURIC ACID



SPECIALLY DESIGNED FOR  
AGRI FIELD APPLICATIONS

@dose

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## Technical Specifications

### pH SENSOR

pH RANGE	: 2 - 11 pH
BODY MATERIAL	: GLASS
MAX. OPERATING PRESSURE	: 5 Kg/cm <sup>2</sup>
CABLE LENGTH	: 5 mtrs
MOUNTING THREAD	: 3/4" BSPM

### EC SENSOR

RANGE	: 500 - 5000 $\mu$ S
BODY MATERIAL	: SS 316 with ABS BODY
MAX. OPERATING PRESSURE	: 5 Kg/cm <sup>2</sup>
CABLE LENGTH	: 5 mtrs
MOUNTING THREAD	: 3/4" BSPM

### FEATURES

- AUTOMATICALLY COMPENSATES FOR THE CHANGES IN FEED pH/EC.
- WITH FUZZY LOGIC-MOST ACCURATE AND STABLE CONTROLLER.
- LEVEL SWITCH INTERLOCK.
- ALSO AVAILABLE IN PVDF FOR SULFURIC ACID APPLICATIONS.
- BUILT IN ARV WITH SEPARATE DISCHARGE POINT TO PREVENT CHEMICAL SPILLAGE.

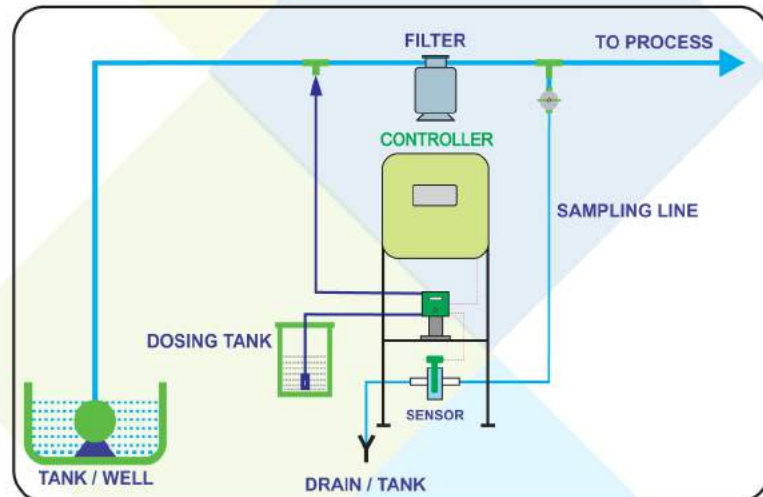
### DOSING PUMP

ELECTRICAL	: 230 V AC [+/- 20%] 50Hz
SUCTION TUBING	: 4/6 mm
DISCHARGE TUBING	: 4/6 mm
DOSING RATE	: 1.5/3/6/10 LPH at 4Kg/cm <sup>2</sup>
WETTED PARTS	: PP/PVDF

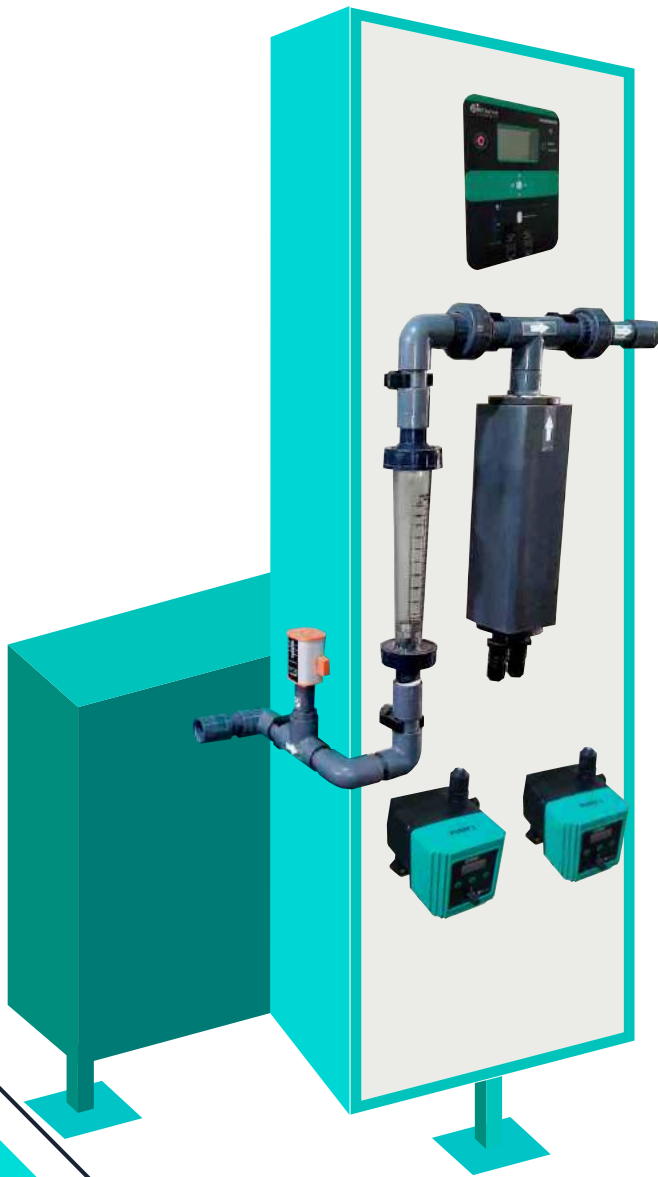
### SCOPE OF SUPPLY

- METERING PUMP
- 3 METER SUCTION AND DISCHARGE TUBING
- SUCTION FILTER CUM FOOT VALVE
- INJECTION / BACK PRESSURE ASSEMBLY
- pH/EC SENSOR WITH HOLDER
- FREE STANDING SKID DULY POWDER COATED

### SCHEMATIC



**@dose**  
Electronic Metering Pump



THE ALL NEW  
**CHLOROMATIC**  
an advanced  $\text{Cl}_2$  Generator

**INITIATIVE**  
ENGINEERING

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Maximum capacity upto 60gm/hr.



Contact less flow measurement system for accurate operation.



AUTO/MANUAL Selection available.



Complete with Skid, Tank, Piping (Plug and Play)

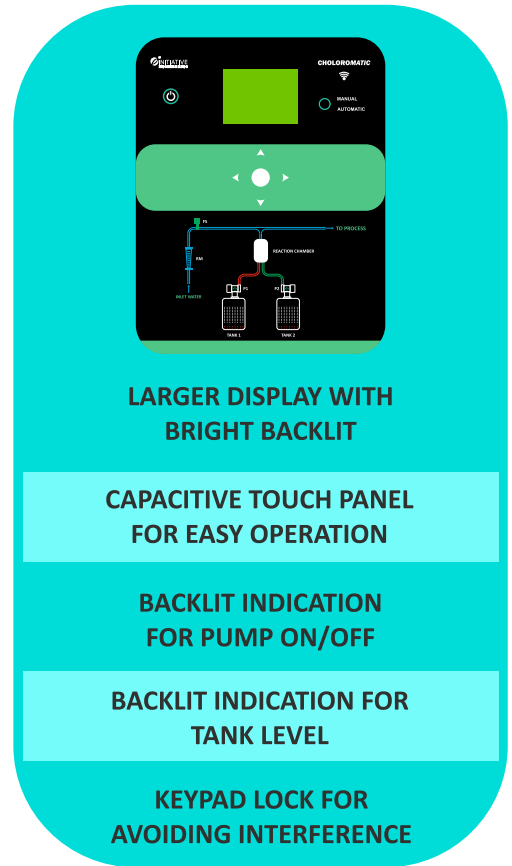


Data Logging via USB



Remote Monitoring (Optional)

DIMENSION- 1200L X 1700H X 980D MM



## ADVANTAGES

- Chlorine dioxide is effective over a broad pH range.
- Chlorine dioxide does not form trihalomethanes upon reaction with organic matter.
- Chlorine dioxide has the ability to penetrate and remove biofilm formed and kill bacteria, spores and viruses.
- Required contact time for Chlorine dioxide is lower compared to Chlorine.
- Chlorine dioxide has 2.5 times the oxidizing capability of Chlorine
- Chlorine dioxide destroys phenols and its derivatives.
- Chlorine dioxide is less corrosive than chlorine and does not hydrolyze to form acid.
- Chlorine dioxide does not form chloramines.

## APPLICATIONS

- Food Processing-fresh pack, processed foods, cold storage
- Odour Control- mercaptain, hydrogen sulfide oxidation
- Drinking & potable water production
- Effluent Water Treatment.
- Iron & manganese oxidation & color removal
- Cooling tower- biological control / MIC control
- Ethanol production- cooling towers, fermentation
- Wine Production

# Auto-Chlorination System for Swimming Pool with pH Control...



**POOLDOSE**

Another quality product from the makers of popular **@dose** pumps

**INITIATIVE**  
ENGINEERING

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## Technical Specifications

### ORP SENSOR

pH Range	: 2 to 11 pH
ORP Range	:-1000 to +1000 mV
Body Material	:Glass
Max. Operating pressure	:5 kg/cm <sup>2</sup>
Cable Length	:5 mtrs
Mounting Thread	:3/4" BSPM

### DOSING PUMP

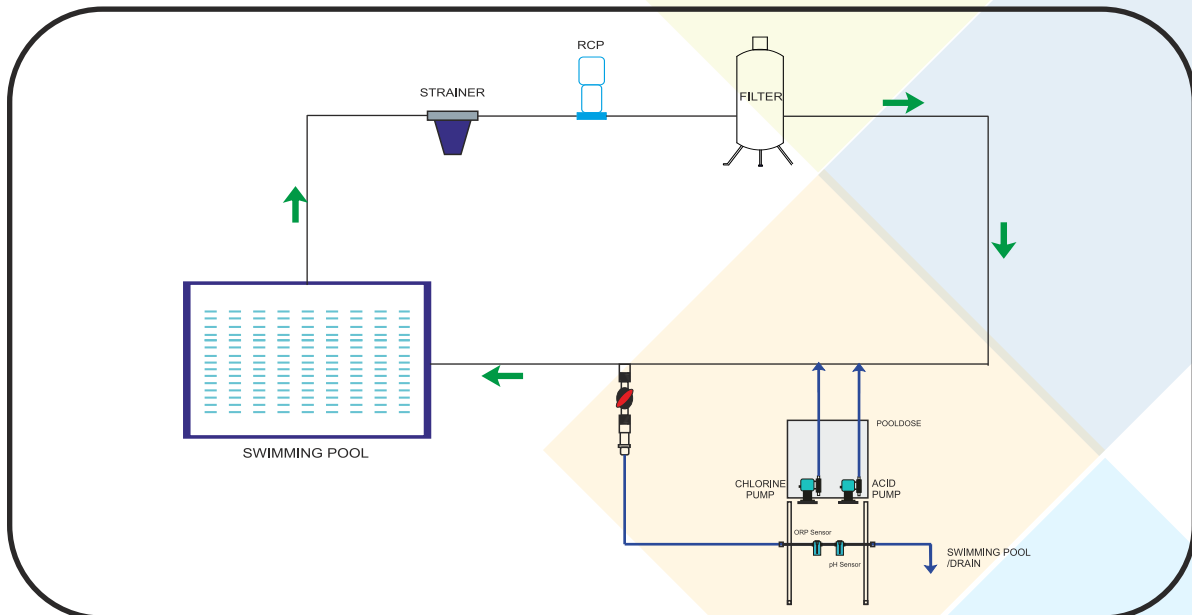
Electrical	: 230 V AC [ +/- 20% ] 50HZ
Tubing Size	: 4/6 mm
Dosing Rate	: 6/10 LPH at 4 Kg/cm <sup>2</sup>
Wetted Parts	: PP

### ADVANTAGES

- Prevent Under Dosing to ensure Complete Algae Control
- Prevent Over Dosing to avoid Skin Irritation and Hair Loss
- Easy to Install with Existing Piping.
- Proven Reduction of Most Bacteria and Viruses

### SCOPE OF SUPPLY

- Metering Pumps for Acid and Hypo (Alkali Pump Optional)
- 3 Meter Suction and Discharge tubing
- Suction Filter Cum Foot Valve
- Injection / Back Pressure Assembly
- pH and ORP Sensor with Holder



@dose

THE ALL NEW  
**BOILER** AUTO  
DOSING SYSTEMS

 **INITIATIVE**  
ENGINEERING

 MADE  
IN  
INDIA

**FILTRA CONSULTANTS AND ENGINEERS LTD.**

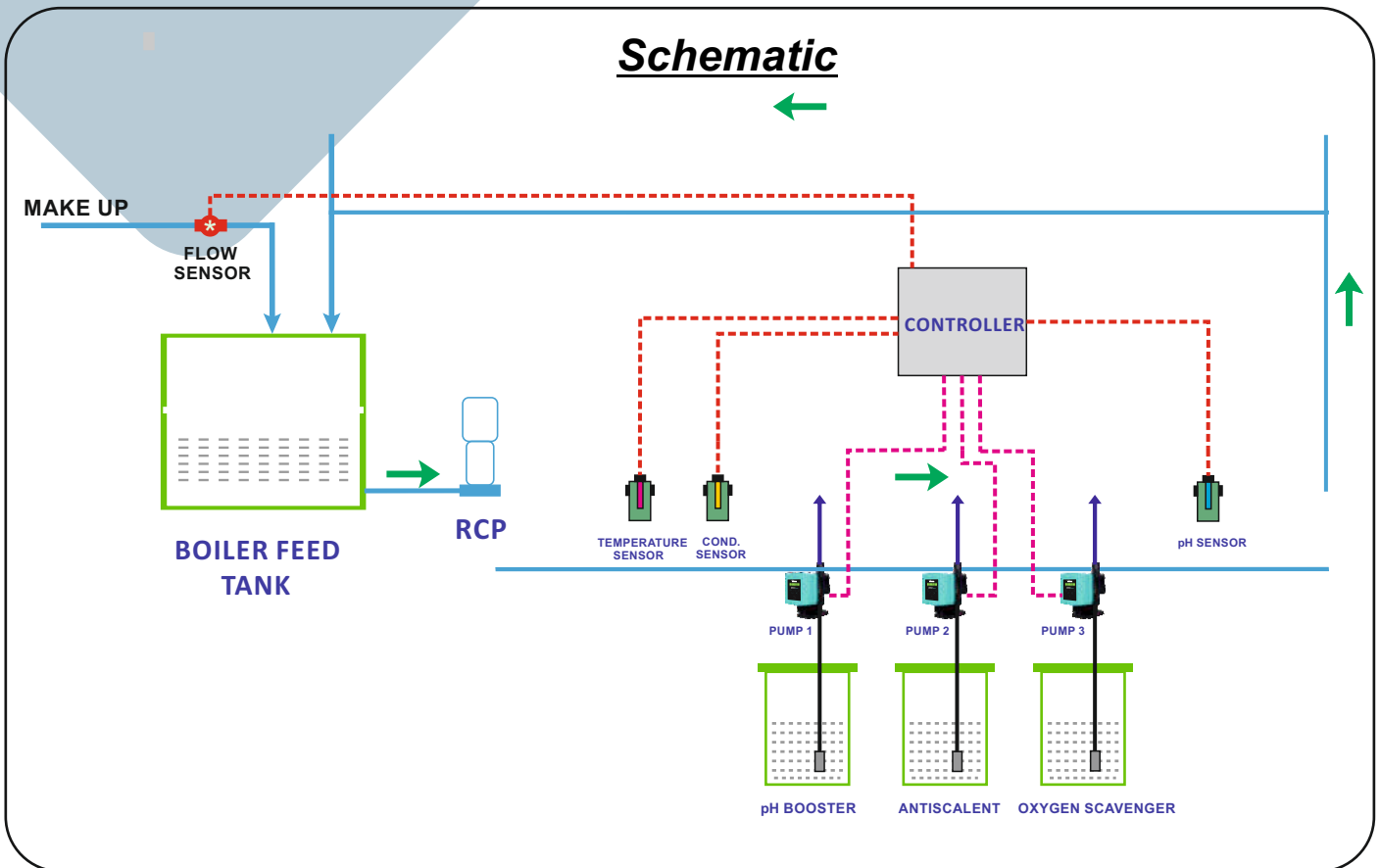
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## BOILER FEED WATER CHEMICAL DOSING SYSTEMS

Boiler feed water, chemical need to be dosed and maintained at specific concentration for their desired effects to be achieved.

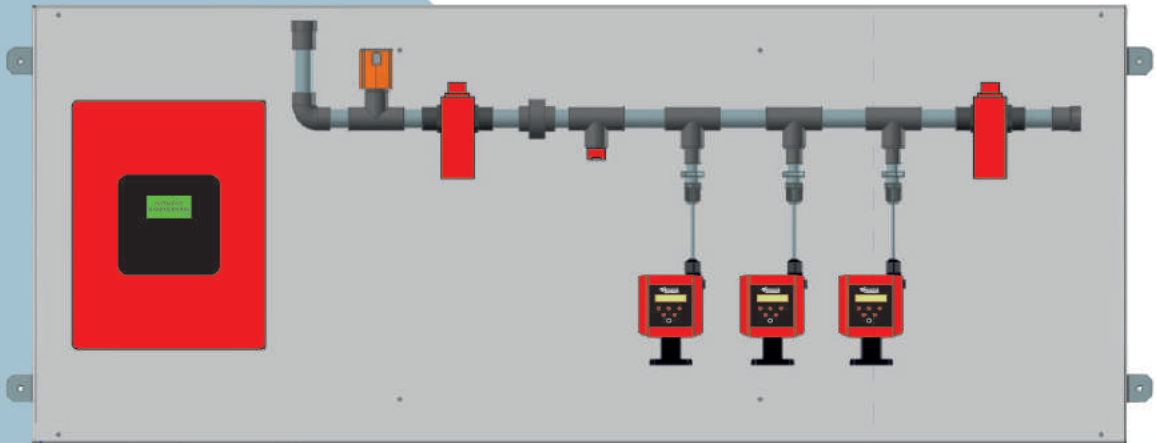
The object is to optimize the chemical dosing by employing our automatic chemical dosing system **OptiTherm** to achieve the best results.



### ADVANTAGES OF BOILER CHEMICAL DOSING SYSTEM

- TO PREVENT THE SCALE FORMATION IN THE BOILER AND FEED SYSTEM.
- TO PREVENT CORROSION IN BOILER AND FEED SYSTEM.
- TO MAINTAIN THE BOILER WATER IN ALKALINE CONDITION AND FREE FROM DISSOLVED GASES.
- TO REDUCE CHEMICAL HANDLING AND IMPROVE HEALTH AND SAFETY.

MADE  
IN  
INDIA



OPTION TO DOSE THREE CHEMICALS



AUTO/MANUAL SELECTION IS AVAILABLE



TEMPERATURE COMPENSATED READINGS FOR pH & CONDUCTIVITY



PROPORTIONAL/FUZZY CONTROL LOGIC FOR pH BOOSTER

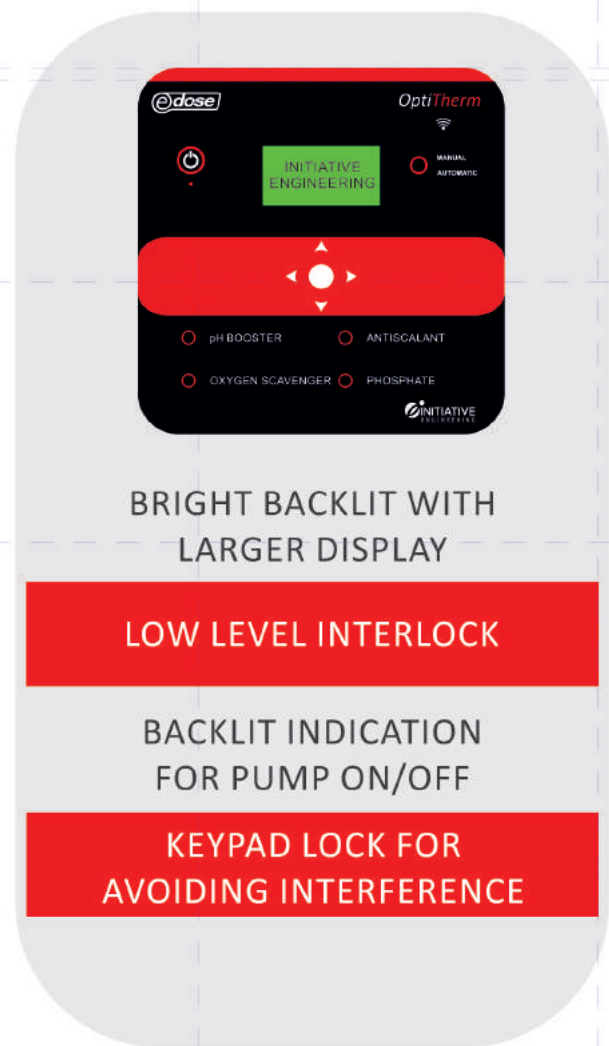


DATA LOGGING VIA USB/RS485



TIME PROPORTIONAL DOSING

**DIMENSIONS- 2230L X 820H X 350W**



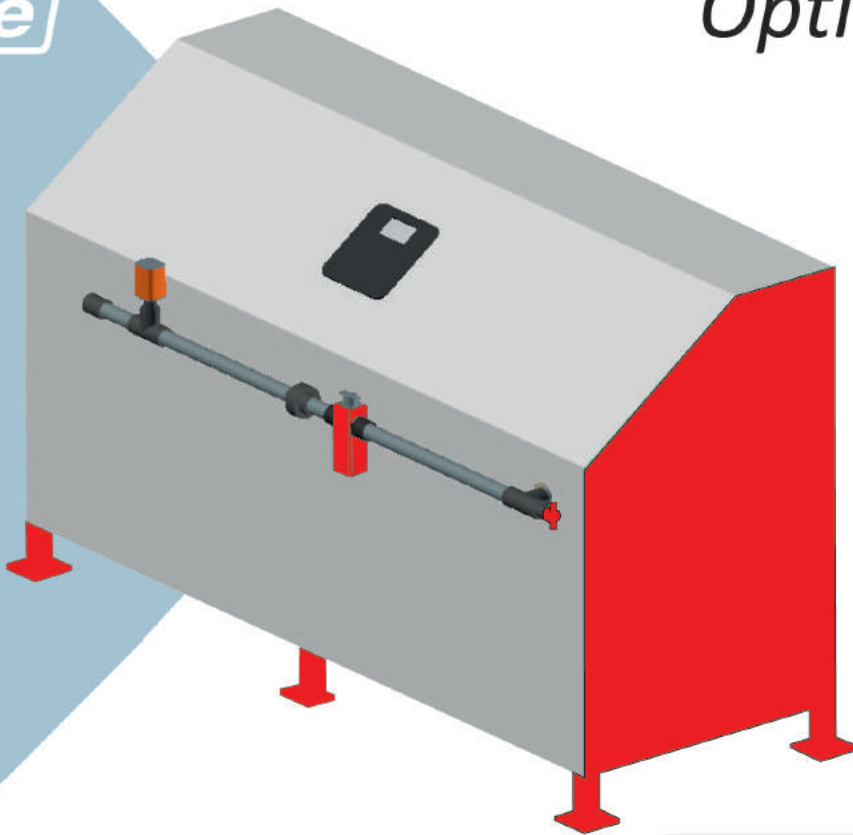
BRIGHT BACKLIT WITH LARGER DISPLAY

**LOW LEVEL INTERLOCK**

BACKLIT INDICATION FOR PUMP ON/OFF

**KEYPAD LOCK FOR AVOIDING INTERFERENCE**





OPTION TO DOSE THREE CHEMICALS



COMPLETE WITH SKID, TANK,  
PIPING ( PLUG & PLAY)



TIME PROPORTIONAL DOSING



OPTION TO CONNECT DO / FEED  
FLOW METER



DAILY, WEEKLY, MONTHLY, YEARLY  
CHEMICAL CONSUMPTION DATA  
WILL BE LOGGED WITH TIME STAMP



REMOTE MONITORING WITH  
CLOUD STORAGE AND DASH BOARD

**DIMENSIONS- 2000L X 1350H X 850W mm**



COLOR TFT DISPLAY

**CAPACITIVE TOUCH PANEL  
FOR EASY OPERATION**

TRENDING GRAPH FOR EACH  
PARAMETER

**MIMIC STATUS FOR  
COMPLETE OPERATION**

**MADE  
IN  
INDIA**



## LIVE DASHBOARD AND MIMIC

- Dashboard for live status of all parameters.
- MIMIC status of Running operation.

## FUNCTION ALARM

- Facility to generate alarm on faulty condition and send notification or alert through email/SMS.
- Facility to export in to Excel sheet.

## CHEMICAL CONSUMPTION AND AVAILABILITY

- Available with daily, weekly, monthly, yearly chemical consumption details.
- Chemical storage tanks level monitoring

## STREAMLINE MAINTENANCE

- It's of critical importance that all systems, programs and applications are well-maintained and kept up-to-date with overall health checks. Remote monitoring keeps track of the status of all of your technology to ensure that any issues that arise are promptly addressed.

## MAINTENANCE ALERT

- having facility to generate maintenance alert for technician through Email.
- Reminder for sensor calibration