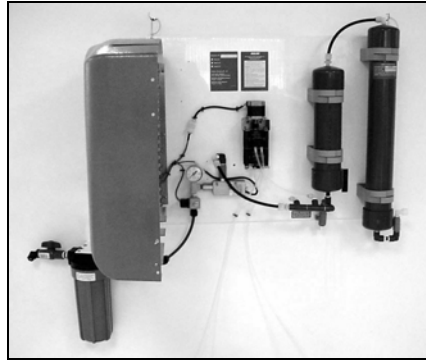


HALOX TECHNICAL DATA SHEET

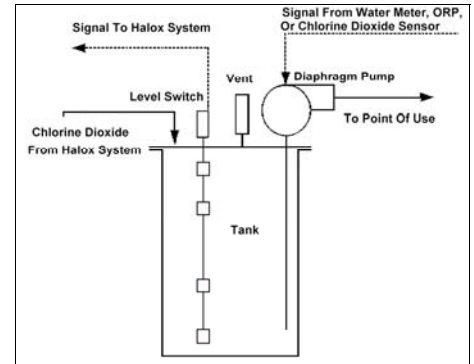
Halox Chlorine Dioxide (ClO₂) Dosing Packages



Halox Chlorine Dioxide Dosing Package Model 10 With Halox H1000SRE Chlorine Dioxide Generator on Containment Skid



Accu-Cide Chlorine Dioxide Generator (wall-mounted)



Schematic – Halox ClO₂ Dosing Package

SYSTEM DESCRIPTION

The Halox ClO₂ Dosing Package is specially designed to deliver chlorine dioxide (ClO₂) solutions produced by Halox SRE and Accu-Cide generators into pressurized systems.

The amount of ClO₂ required in a particular application depends on system demand, make-up rate, and desired residual. Rugged and dependable pumps sized to match ClO₂ generation rate/dosing feed rates will supply up to 65 gallons-per-hour (246 liters) of ClO₂ solution into pressurized streams up to 150 psi (10.3 bars). Larger size systems with a variety of options are available.

The basic design includes a specially-coated tank, level controls and alarms, a leak containment skid and a control box. All components have been carefully chosen for safety and chemical compatibility. Rugged and dependable PULSAFEEDER pumps are sized to match the generation rates of the Halox units.

The Halox ClO₂ Dosing Package requires minimal assembly. It contains all the necessary components for safely storing and metering ClO₂ solution.

<u>Features</u>	<u>Benefits</u>
Fully engineered and sized dosing package in four configurations	<ul style="list-style-type: none"> • Four configurations handle most application requirements • Simple site qualification • Design development is eliminated for the water treater • On-site engineering requirement is minimal
Fluorinated black polyethylene tank	<ul style="list-style-type: none"> • Provides against corrosive deterioration or catastrophic failure. These safety features are unavailable with typical polyethylene or polypropylene materials. It also provides for longer tank life.
Gasketed, closed top with activated carbon vent filter	<ul style="list-style-type: none"> • Prevents emitting odors to atmosphere
Spill containment pallet with leak detector	<ul style="list-style-type: none"> • Automatically shuts down system if leak occurs
Compact control module	<ul style="list-style-type: none"> • Simple operation with level indicator, lights and alarm contacts
Level switches to control generator output with high and low alarms	<ul style="list-style-type: none"> • Safely and reliably controls the operation of the dosing package including high and low safety shut-offs
Input options	<ul style="list-style-type: none"> • 4-20 mA or pulsed operation from water meter or controller

MODELS

The Halox ClO₂ Dosing Package is available in four different models as follows:

Models 5 and 10	Models 21 and 65
Tank Size: 30 gallon (114 liters) Output Pressure: 100 psi* (6.9 bars) max. Flow Rate: 5 gallons-per-hour (19 liters) for Model 5, 10 gallons-per-hour (38 liters) for Model 10 Pumps: PULSAtron Series E Plus with 4 to 20 mA or Pulse inputs. One pump for Model 5; two pumps for Model 10.	Tank Size: 30 gallon (114 liters) Output Pressure: 150 psi* (10.3 bars) max. Flow Rate: 21 gallons-per-hour (80 liters) for Model 21, 65 gallons-per-hour (246 liters) for Model 65 Pump: One PULSAtron Series M with 4 to 20 mA input. For Pulse option please contact your water meter manufacturer for a Pulse to 4 to 20 mA converter. Alternatively, Halox can provide a water meter with a 4 to 20 mA output.

* Higher flow rates are possible at lower injection pressures. Refer to the PULSAFEEDER pump efficiency curves for actual performance data.

ELECTRO-CHEMICAL GENERATORS (SRE MODELS)

To choose the proper dosing package, consult the following. In all cases it is assumed that the pump(s) operate at 80% capacity. The amount of chlorine dioxide in the dosing package is a function of the size of chlorine generator being used and the number of cassettes installed in the generator.

Model 5 (one PULSAtron Series E Plus pump)

Line Pressure, psi / bars	No. of 5 gm/hr Cassettes
56 to 100 / 3.9 to 6.9 bars	2 or less
25 to 55 / 1.7 to 3.8 bars	3 or less
0 to 24 / 0 to 1.7	4 or less

Model 10 (two PULSAtron Series E Plus pumps)

Line Pressure, psi / bars	No. of 5 gm/hr Cassettes
56 to 100 / 3.9 to 6.9 bars	4 or less

Model 21 (one PULSAtron Series M pump)

Line Pressure, psi / bars	No. of 25 gm/hr Cassettes
100 to 150 / 6.9 to 10.3 bars	2 or less

Model 65 (one PULSAtron Series M pump)

Line Pressure, psi / bars	No. of 25 gm/hr Cassettes
100 to 150 / 6.9 to 10.3 bars	4 or less

CHEMICAL GENERATORS (ACCU-CIDE)

To choose the proper dosing package, consult the following. In all cases it is assumed that the pump(s) operate at 80% capacity.

Accu-Cide Model 25 uses a Model 5 Dosing Package (one PULSAtron Series E Plus pump)

Accu-Cide Model 135 uses a Model 10 Dosing Package (two PULSAtron Series E Plus pumps)

Accu-Cide Model 515 uses either a Model 21 Dosing Package (one PULSAtron Series M pump) or a Model 65 Dosing Package (one PULSAtron Series M pump).

ELECTRICAL

The Halox ClO₂ Dosing Package requires the following electrical connections. Note: Be sure to order the correct electrical configuration. The package is not dual voltage (switchable).

Model 5/Model 10	Model 21/Model 65
115/230 VAC, 50/60 Hertz, 4/2 Amperes	115/230 VAC, 50/60 Hertz, 15 Amperes

Note: 230 VAC versions are not supplied with an electrical plug. Use a plug with a minimum rating of 230 VAC.

OPERATING ENVIRONMENT

Installation Location Indoors, clean and dry.

Ambient Temperature 35 to 110 °F (1.6 to 43 °C)

APPROXIMATE DIMENSIONS AS PICTURED ON PAGE 1

ClO₂ Dosing System (includes spill containment pallet and Halox H1000 ClO₂ generator)

Length 52 in (132 cm)

Width 27 in (69 cm)

Height 60 in (152 cm)

Operational Weight 500 lb (227 kg)

CUSTOM FEATURES

Special features such as double tank construction or auxiliary alarm systems are available at additional cost.

PART NUMBERS

The part number defines the dosing package. Examples follow:

P/N DOS-05-30-2-115

DOS = Dosing Package

05 = Model 5 (5 gallons per hour)

30 = 30 gallon tank

2 = pulse control

115 = 115 Volts

P/N DOS-10-30-1-230

DOS = Dosing Package

10 = Model 10 (10 gallons per hour)

30 = 30 gallon tank

1 = 4-20 mA control

230 = 230 Volts

Part Number

DOS-05-30-1-115

DOS-05-30-1-230

DOS-05-30-2-115

DOS-05-30-2-230

DOS-10-30-1-115

DOS-10-30-1-230

DOS-10-30-2-115

DOS-10-30-2-230

DOS-21-30-1-115

DOS-21-30-1-230

DOS-65-30-1-115

DOS-65-30-1-230

DOS-65-45-1-115*

DOS-65-45-1-230*

Model

Model 5, 4-20 mA Control, 115 Volts

Model 5, 4-20 mA Control, 230 Volts

Model 5, w/Pulse Control, 115 Volts

Model 5, w/Pulse Control, 230 Volts

Model 10, 4-20 mA Control, 115 Volts

Model 10, 4-20 mA Control, 230 Volts

Model 10 w/Pulse Control, 115 Volts

Model 10 w/Pulse Control, 230 Volts

Model 21 4-20 mA Control, 115 Volts

Model 21 4-20 mA Control, 230 Volts

Model 65 4-20 mA Control, 115 Volts

Model 65 4-20 mA Control, 230 Volts

Model 65 4-20 mA, Control, 115 Volts

Model 65 4-20 mA, Control, 230 Volts

*Special order; allow 7 to 8 weeks for delivery.

MKT-TDS-0033

Issued: 15 Jul 05

Spds: 09 JUn 05