

# MICROCLOR®

## On-Site Hypochlorite Generation

Model		MC-20	MC-40	MC-60	MC-80
Capacity Free Available Chlorine (FAC)	lbs per day	20	40	60	80
	kgs per day	9	18	27	36
Hypochlorite Produced	gal per day	300	600	900	1,200
	liters per day	1,135	2,270	3,405	4,540
Chlorine Concentration	w/w%	0.70 ± 0.05			
<b>Electrical Requirements</b>					
Control Panel Service (120/208-240/1/60)	amps	30	30	30	30
Rectifier Service		20 A*	240/1/60 @ 50 A	460/3/60 @ 15 A	460/3/60 @ 20 A
Rectifier DC Power Rating	KVA	2.4	4.8	7.2	9.6
<i>NOTE: Configurations available for alternate electrical power supplies.</i>					
<b>Control and Interface</b>					
Cell Quantity		1	2	3	4
Skid Materials of Construction		304 Stainless Steel, Electropolished			
Electrical Control Panel		Allen-Bradley MicroLogix 1400 PLC, Ethernet Communications, 304 Stainless Steel, NEMA 4X			
Operator Interface		6" (15 cm) Color Touchscreen HMI			
<i>NOTE: Control systems using alternate PLC platforms available.</i>					
<b>Operational Performance</b>					
Salt Consumption	lbs per lb FAC	2.5 – 3.5			
	kgs per kg FAC	2.5 – 3.5			
Power Consumption	kWh (AC) per lb FAC	1.8 – 2.4			
	kWh (AC) per kg FAC	4.0 – 5.3			
Water Consumption	gal per lb FAC	14.0 – 17.0			
	liters per kg FAC	117 - 142			
<b>Environmental and Physical Ratings</b>					
Ambient Air Temperature Rating <sup>1</sup>	°F	35 – 90			
	°C	2 – 32			
Feed Water Temperature Rating <sup>2</sup>	°F	55 – 78			
	°C	13 – 26			
Feed Water Pressure Rating	psi	50 – 80			
	kPa	345 – 552			
Skid Dimensions (W x D x H)	in	37 x 16 x 72	43 x 16 x 72	54 x 16 x 72	74 x 20 x 76
	cm	93 x 41 x 183	109 x 41 x 183	137 x 41 x 183	187 x 51 x 193

<sup>1</sup>Thermal management available for environments above 90 °F (32 °C).

<sup>2</sup>Heat exchangers and chillers available for feed water outside the temperature range shown.

\*MC-20 Rectifier is powered through the control panel.

System Approvals

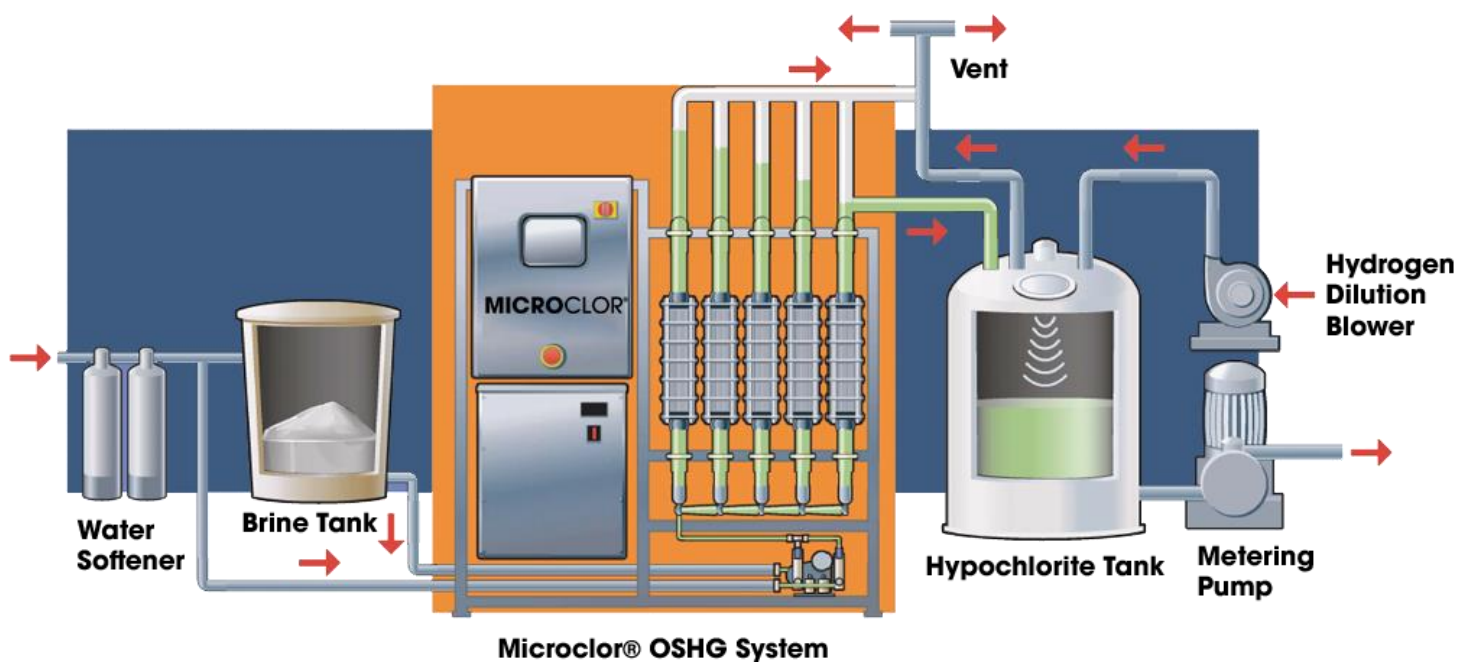
Electrical Control Panel Approvals

Transformer/Rectifier Approvals



## On-Site Hypochlorite Generation

Microclor® Process Flow Diagram





**Features:**

- Brine/salt tank(s), water softeners, solution tank(s), dosing pumps, and other ancillary equipment are available in various sizes to satisfy project requirements.
- System configurations available using alternate power supplies (380 VAC, 600 VAC, 50 Hz, etc.).
- Complete supply of equipment scope, system start up and installation inspection.
- Three-year warranty available.
- UL-, CE-, and CSA-Certified electrical control panel.



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