

# On-site Sodium Hypochlorite Generators

## ClorTec® DN Series

12 to 3000 lb/d (5.4 kg/d to 1360 kg/d)

### ClorTec® makes electrochlorination easy

The latest generation of brine electrochlorination technology, the ClorTec® DN systems, offers simple operation and maintenance as well as unrivaled performance and safety advantages.

ClorTec® DN systems generate sodium hypochlorite using three common consumables: water, salt and power.

### Specifications

**Capacities:** 12 - 3000 lb/d (5.4 - 1360 kg/d) free available chlorine.

**Control:** Automatic batch, controlled by product storage tank level

**Sodium Hypochlorite:** 0.8% ± 0.05%.

**Raw Materials:** 3.0 lb (3.0 kg) salt, 2.0 kWh (4.4kWh) ac electrical energy and 15 gal (125 L) water per lb (kg) of free available chlorine produced

**Water Supply:** Potable water @ 30 - 70 psi (1.2 - 4.8 bar)

**Temperature Range:** 65°F - 80°F (18°C - 29°C)

**Salt Quality:** 99.7% pure dry weight solar salt or equivalent

### Electrical Power:

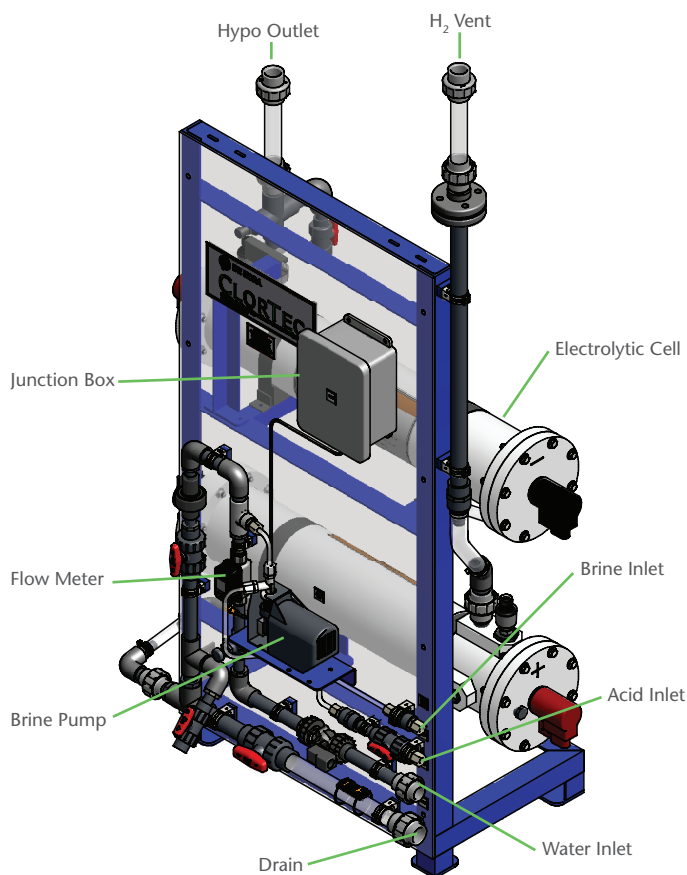
- **Rectifier:** 208 or 240 Vac 1 Phase, 60 Hz or 480 - 600 Vac, 3 Phase, 60 Hz (50 Hz also available)
- **Control Panel:** 208 or 240 Vac 1 Phase, 60 Hz (Any other voltages and 50 Hz are also available)

**PLC & Operator Interface:** 4"/7" PLC/HMI Touch Screen\* (Other PLC & HMI options are also available)

**Control Panel:** Grey polyester coated NEMA 4 welded steel enclosure UL 508A (Other materials are also available)

**Hydrogen Venting:** Waste hydrogen is diluted and vented to atmosphere by using air blower(s)

\* Data logging and communications capability.



# ClorTec® DN Series On-site Sodium Hypochlorite Generators

## Product Configuration

| Model             | Cell Configuration | Output Capacity* |        | Total Flow |                     | Softwater |                     | Brine Flow |                     | Salt   |        |
|-------------------|--------------------|------------------|--------|------------|---------------------|-----------|---------------------|------------|---------------------|--------|--------|
|                   |                    | (lb/d)           | (kg/d) | (gpm)      | (m <sup>3</sup> /d) | (gpm)     | (m <sup>3</sup> /d) | (gpm)      | (m <sup>3</sup> /d) | (lb/d) | (kg/d) |
| Mini Size System  |                    |                  |        |            |                     |           |                     |            |                     |        |        |
| MCT-DN12          | 1 x 12             | 13               | 6      | 0.13       | 0.71                | 0.12      | 0.65                | 0.01       | 0.05                | 36     | 16     |
| MCT-DN24          | 2 x 12             | 26               | 12     | 0.25       | 1.36                | 0.23      | 1.25                | 0.02       | 0.11                | 72     | 32     |
| MCT-DN36          | 3 x 12             | 40               | 18     | 0.38       | 2.07                | 0.35      | 1.91                | 0.03       | 0.16                | 108    | 48     |
| Mid Size System   |                    |                  |        |            |                     |           |                     |            |                     |        |        |
| CT-DN75           | 1 x 75             | 80               | 36     | 0.78       | 4.25                | 0.72      | 3.92                | 0.06       | 0.33                | 225    | 102    |
| CT-DN100          | 1 x 100            | 108              | 49     | 1.04       | 5.67                | 0.96      | 5.23                | 0.08       | 0.44                | 300    | 136    |
| CT-DN150          | 2 x 75             | 160              | 73     | 1.56       | 8.50                | 1.44      | 7.85                | 0.12       | 0.65                | 450    | 204    |
| CT-DN200          | 2 x 100            | 216              | 98     | 2.08       | 11.34               | 1.92      | 10.47               | 0.16       | 0.87                | 600    | 272    |
| CT-DN225          | 3 x 75             | 240              | 109    | 2.34       | 12.75               | 2.16      | 11.77               | 0.18       | 0.98                | 675    | 306    |
| CT-DN300          | 3 x 100            | 324              | 147    | 3.13       | 17.06               | 2.88      | 15.70               | 0.24       | 1.31                | 900    | 408    |
| Large Size System |                    |                  |        |            |                     |           |                     |            |                     |        |        |
| CT-DN450          | 1 x 450            | 500              | 227    | 4.69       | 25.57               | 4.33      | 23.60               | 0.36       | 1.96                | 1350   | 612    |
| CT-DN600          | 1 x 600            | 625              | 283    | 6.25       | 34.07               | 5.77      | 31.45               | 0.48       | 2.62                | 1800   | 816    |
| CT-DN750          | 1 x 750            | 750              | 340    | 7.81       | 42.57               | 7.21      | 39.30               | 0.60       | 3.27                | 2250   | 1020   |
| CT-DN900          | 2 x 450            | 1000             | 454    | 9.38       | 51.13               | 8.65      | 47.15               | 0.72       | 3.93                | 2700   | 1224   |
| CT-DN1200         | 2 x 600            | 1250             | 567    | 12.50      | 68.14               | 11.54     | 62.90               | 0.96       | 5.23                | 3600   | 1632   |
| CT-DN1500         | 2 x 750            | 1500             | 680    | 15.63      | 85.20               | 14.42     | 78.60               | 1.20       | 6.54                | 4500   | 2041   |
| Dual Large System |                    |                  |        |            |                     |           |                     |            |                     |        |        |
| CT-DN1800         | 2 x 450 + 2 x 450  | 2000             | 902    | 18.75      | 102.21              | 17.31     | 94.36               | 1.44       | 7.85                | 5400   | 2449   |
| CT-DN2400         | 2 x 600 + 2 x 600  | 2500             | 1134   | 25.00      | 136.28              | 23.08     | 125.81              | 1.92       | 10.47               | 7200   | 3265   |
| CT-DN3000         | 2 x 750 + 2 x 750  | 3000             | 1361   | 31.25      | 170.34              | 28.85     | 157.26              | 2.40       | 13.08               | 9000   | 4082   |

NOTE: \*Output capacities are maximum values. For detail sizing please contact DNWT.

WATER MADE EASY

MARINE

ENERGY

MUNICIPAL

INDUSTRIAL



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