

GENOX

Safe alternative to ClO₂

Low human hazard

Cost effective – from 4 pence/ m³ of treated water

HSG274 - HOCl is the most effective form of Chlorine Used widely in the NHS

SUITABLE FOR

Hot / cold systems
Primary disinfection
Secondary disinfection
Hospitals
Hotels
Care homes
Schools
Legionella control
Drinking water
Breweries
Dairies
Food processing
And more ...

GENOX

Produces low hazard, HOCl biocide NEUTHOX® for primary and secondary disinfection.



Cost effective, safe and powerful biocide for large and small systems

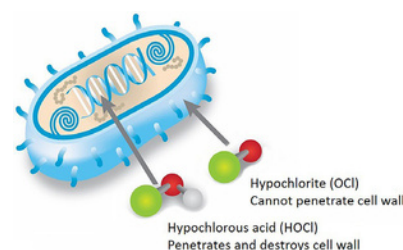
A specially developed GENOX Generator System uses electrolysis of brine to generate a biocide (NEUTHOX®) on demand. NEUTHOX® is a powerful, proven disinfectant that controls biofilm and destroys Legionella and Pseudomonas and is effective even at 40-50°C. The active ingredient in NEUTHOX® is hypochlorous acid (HOCl) which is produced naturally in the human body within white blood cells to fight infection.

HOCl is lethal to pathogens. It is low hazard, easy to handle and easy to dose. Generation is inexpensive and HOCl is stored securely in a drum. The unit merely requires water, Genox salt and electricity.

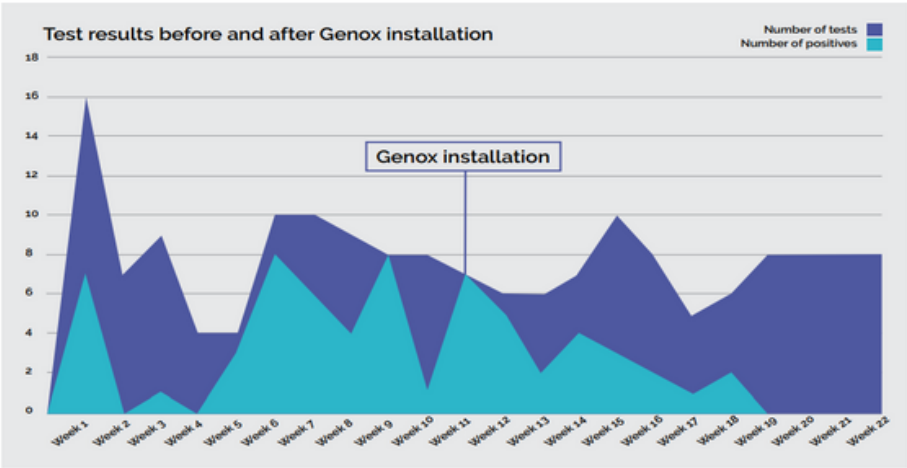
A wide range of units are available and all are compact allowing for simple retro fitting to areas with small available space footprints.

How it works

HOCl renders bacteria inactive and achieves its results by a two-stage disruptive process. On breaching the bacteria cell wall, it interacts chemically with the cell's proteins, attacking the cell's DNA and causing the whole cell to die. The cell floods with water and acidic fluid and dies. Once the bacteria has been destroyed, its co-dependent relationship with the biofilm is disrupted and the biofilm begins to break up, bringing Legionella and Pseudomonas levels back or permanently under control to acceptable levels.



A UK school experienced persistent Legionella bacteria counts despite daily flushing, efforts to increase water flow, improving the pipework and thermal pasteurisation of the water distribution system.



Genox compared with conventional chlorine dioxide

ClO₂

- Complex Generator maintenance
- Requires supply and dosing of two chemicals
- Danger of Chlorite and Chlorate overdose
- Pre-stabilised ClO₂ has a limited shelf life
- ClO₂ in solution can sometimes be tasted
- Complex control
- Hazardous
- Handling issues
- Relatively expensive to generate

GENOX producing NEUTHOX®

- Simple, fast Generator maintenance
- No hazardous chemical handling
- HOCl is produced at a low hazard concentration
- HOCl stored in secure 50-200L tanks
- No taste, no colour, reduced danger of over-dosing
- Easy monitoring, control and adjustment remotely (optional)
- Ecologically safe
- PPE equipment for low hazard
- Inexpensive and cost effective to generate
- Easy training to measure the system reserve

Multiple applications with units tailored to needs, flow and application



Mini LC



T15 LC & T15 STD



T25 LC & T25 STD

Mini LC

Technical Specifications and Datasheet



		Mini LC		
Neuthox production capacity $\pm 10\%$	l/h	3	9	15
Chloride in Neuthox® $\pm 10\%$	mg/l	1700	1700	1700
Free Active Chlorine $\pm 10\%$	ppm	500	500	500
pH-value	pH	8,5	8,5	8,5
Approx. NaCl consumption*	Kg/day	0,15	0,45	0,75
Max. Pre-fuse	A	13	13	13
Power consumption	W	108	324	396
Voltage CEE plug $\pm 10\%$	V, Hz	230V AC 50/60 Hz	230V AC 50/60 Hz	230V AC 50/60 Hz
Length of power supply cable	m	2	2	2
Protection class, electrical cabinet	IP	IP54, NEMA3R	IP54, NEMA3R	IP54, NEMA3R
Required water supply pressure	Bar	2,0 - 8,0	2,0 - 8,0	2,0 - 8,0
Max. drain back pressure	Bar	0,2	0,2	0,2
Water supply temperature	°C	≤ 20	≤ 20	≤ 20
Ambient temperature tolerance	°C	+5 to +40	+5 to +40	+5 to +40
Min. required room ventilation	m³/h	2	7	8
Maximum running hours	h/day	24	24	24
Water connection hose length	m	Not included	Not included	Not included
Water connection (push-in connector)	mm	10	10	10
Dimensions				
Cabinet dimensions: Width×Height×Depth	mm	600×600×250	600×600×250	600×600×250
Weight	Kg	22	22	22
Brine tank size: Width×Height×Depth	mm	Internal	270×470×330	270×470×330
Brine tank Capacity	L	7	33	33
Neuthox® size: Width×Height×Depth	mm	Internal	250×540×320	250×540×320
Neuthox® tank capacity	L	7	33	33
Sound level	dB(A)	40	40	40

*At 20 °C, water hardness 400 ppm, 20-hour operation



01454 299 310



info@wcs-group.co.uk



wcs-group.co.uk/contact

T15 LC

Technical Specifications and Datasheet



		T15 LC		
Neuthox production capacity $\pm 10\%$	l/h	30	50	75
Chloride in Neuthox® $\pm 10\%$	mg/l	1700	1700	1700
Free Active Chlorine $\pm 10\%$	ppm	500	500	500
pH-value	pH	8,5	8,5	8,5
Approx. NaCl consumption*	Kg/day	3,0	4,6	7,2
Max. Pre-fuse	A	16	16	16
Power consumption	W	684	996	1308
Voltage CEE plug $\pm 10\%$	V, Hz	230V AC 50/60 Hz	230V AC 50/60 Hz	230V AC 50/60 Hz
Length of power supply cable	m	3	3	3
Protection class, electrical cabinet	IP	IP54, NEMA3R	IP54, NEMA3R	IP54, NEMA3R
Required water supply pressure at 15l/min	Bar	2,5 - 6,2	2,5 - 6,2	2,5 - 6,2
Max. drain back pressure	Bar	0,2	0,2	0,2
Water supply temperature	°C	≤ 25	≤ 25	≤ 25
Ambient temperature tolerance	°C	+5 to +40	+5 to +40	+5 to +40
Min. required room ventilation	m3/h	16	23	31
Recommended running hours	h/day	15	15	15
Maximum running hours	h/day	20	20	20
Water connection hose length	m	Not included	Not included	Not included
Water connection (BSP Male)	Inch	½"	½"	½"
Drain connection (BSP Male)	Inch	½"	½"	½"
Drain hose - min. inside diameter	mm	12	12	12
Drain hose - max. length	m	5	5	5
Dimensions				
Cabinet dimensions: Width-Height-Depth	mm	710-840-310	710-840-310	710-840-310
Weight	Kg	53	55	55
Brine tank size: Width-Height-Depth	mm	360-720-450	360-720-450	360-720-450
Brine tank Capacity	L	100	100	100
Neuthox® size: Width-Height-Depth	mm	360-720-440	360-720-440	360-720-440
Neuthox® tank capacity	L	100	100	100
Sound level	dB(A)	51	51	51

*At 20 °C, water hardness 400 ppm, 20-hour operation



T25 LC

Technical Specifications and Datasheet



		T25 LC	
Neuthox production capacity $\pm 10\%$	l/h	125	250
Chloride in Neuthox® $\pm 10\%$	mg/l	1700	1700
Chlorate CLO ₃ in Neuthox®	mg/l	4	16
Free Active Chlorine $\pm 10\%$	ppm	500	500
pH-value	pH	5,5 - 8,5	5,5 - 8,5
Approx. NaCl consumption*	Kg/day	6	25
Max. Pre-fuse	A	16	16
Power consumption	W	1980	4620
Voltage CEE plug $\pm 10\%$	V, Hz	3x400V AC 50/60 Hz	3x400V AC 50/60 Hz
Length of power supply cable	m	3	3
Protection class, electrical cabinet	IP	IP54, NEMA3R	IP54, NEMA3R
Required water supply pressure at 15l/min	Bar	2,5 - 6,2	2,5 - 6,2
Max. drain back pressure	Bar	0,2	0,2
Water supply temperature	°C	≤ 25	≤ 25
Ambient temperature tolerance	°C	+5 to +40	+5 to +40
Min. required room ventilation	m ³ /h	48	114
Recommended running hours	h/day	15	15
Maximum running hours	h/day	20	20
Water connection hose length	m	Not included	Not included
Water connection (BSP Male)	Inch	½"	½"
Drain connection (BSP Male)	Inch	½"	½"
Drain hose - min. inside diameter	mm	12	12
Drain hose - max. length	m	5	5
Dimensions			
Cabinet dimensions: Width-Height-Depth	mm	850 - 1490 - 460	850 - 1490 - 460
Weight	Kg	185	185
Brine tank size: Width-Height-Depth	mm	1100 - 880 - 530	1100 - 880 - 530
Brine tank Capacity	L	400	400
Sound level	dB(A)	70	70

*At 20 °C, water hardness 400 ppm, 20-hour operation



T15 STD

Technical Specifications and Datasheet



		T15 STD	
Neuthox production capacity $\pm 10\%$	l/h	40	100
Chloride in Neuthox® $\pm 10\%$	mg/l	3800	3800
Free Active Chlorine $\pm 10\%$	ppm	500	500
pH-value	pH	5,5 - 8,5	5,5 - 8,5
Approx. NaCl consumption*	Kg/day	5,7	16,7
Max. Pre-fuse	A	16	16
Power consumption	W	660	1500
Voltage CEE plug $\pm 10\%$	V, Hz	230V AC 50/60 Hz	230V AC 50/60 Hz
Length of power supply cable	m	3	3
Protection class, electrical cabinet	IP	IP54, NEMA3R	IP54, NEMA3R
Required water supply pressure at 15l/min	Bar	2,5 - 6,2	2,5 - 6,2
Max. drain back pressure	Bar	0,2	0,2
Water supply temperature	°C	≤ 25	≤ 25
Ambient temperature tolerance	°C	+5 to +40	+5 to +40
Min. required room ventilation	m3/h	15	36
Recommended running hours	h/day	15	15
Maximum running hours	h/day	20	20
Water connection hose length	m	Not included	Not included
Water connection (BSP Male)	Inch	½"	½"
Drain connection (BSP Male)	Inch	½"	½"
Drain hose - min. inside diameter	mm	12	12
Drain hose - max. length	m	5	5
Dimensions			
Cabinet dimensions: Width-Height-Depth	mm	710-840-310	710-840-310
Weight	Kg	53	55
Brine tank size: Width-Height-Depth	mm	360-720-450	360-720-450
Brine tank Capacity	L	100	100
Neuthox® size: Width-Height-Depth	mm	360-720-440	360-720-440
Neuthox® tank capacity	L	100	100
Sound level	dB(A)	51	51

*At 20 °C, water hardness 400 ppm, 20-hour operation



T25 STD

Technical Specifications and Datasheet



		T25 STD		
Neuthox production capacity $\pm 10\%$	l/h	200	300	400
Chloride in Neuthox® $\pm 10\%$	mg/l	3800	3800	3800
Chlorate CLO3 in Neuthox®	mg/l	9	7	18
Free Active Chlorine $\pm 10\%$	ppm	500	500	500
pH-value	pH	5,5 - 8,5	5,5 - 8,5	5,5 - 8,5
Approx. NaCl consumption*	Kg/day	27	45	51
Max. Pre-fuse	A	16	16	16
Power consumption	W	2580	3900	5100
Voltage CEE plug $\pm 10\%$	V, Hz	3x400VAC 50/60Hz	3x400VAC 50/60Hz	3x400VAC 50/60Hz
Length of power supply cable	m	3	3	3
Protection class, electrical cabinet	IP	IP54, NEMA3R	IP54, NEMA3R	IP54, NEMA3R
Required water supply pressure at 15l/min	Bar	2,5 - 6,2	2,5 - 6,2	2,5 - 6,2
Max. drain back pressure	Bar	0,2	0,2	0,2
Water supply temperature	°C	≤ 25	≤ 25	≤ 25
Ambient temperature tolerance	°C	+5 to +40	+5 to +40	+5 to +40
Min. required room ventilation	m3/h	63	96	126
Recommended running hours	h/day	15	15	15
Maximum running hours	h/day	20	20	20
Water connection hose length	m	Not included	Not included	Not included
Water connection (BSP Male)	Inch	½"	½"	½"
Drain connection (BSP Male)	Inch	½"	½"	½"
Drain hose - min. inside diameter	mm	12	12	12
Drain hose - max. length	m	5	5	5
Dimensions				
Cabinet dimensions: Width-Height-Depth	mm	850 - 1490 - 460	850 - 1490 - 460	850 - 1490 - 460
Weight	Kg	185	185	190
Brine tank size: Width-Height-Depth	mm	1100 - 880 - 530	1100 - 880 - 530	1100 - 880 - 530
Brine tank Capacity	L	400	400	400
Sound level	dB(A)	70	70	70

*At 20 °C, water hardness 400 ppm, 20-hour operation



01454 299 310



info@wcs-group.co.uk



wcs-group.co.uk/contact



MARLOWE Environmental Services



01454 299 310



info@wcs-group.co.uk



wcs-group.co.uk/contact