

ECODOSE

PRODUCT RANGE

An Ecodose system consists of an electron generator coupled to an electrochemical reactor housing a specified number of sacrificial confined metal electrodes, configured to effect the predetermined depollution of a particular wastewater.

A. ECODOSE ELECTRON GENERATOR

PRODUCT CODE

PRODUCT DESCRIPTION

FE-ECD01-010	Ecodose electron generator, single phase, 5 kVA
FE-ECD01-030	Ecodose electron generator, single phase, 15 kVA
FE-ECD03-030	Ecodose electron generator, three phase, 15 kVA
FE-ECD03-090	Ecodose electron generator, three phase, 45 kVA
FE-ECD03-120	Ecodose electron generator, three phase, 65 kVA

ECODOSE ELECTRON GENERATOR SPECIFICATIONS

FE-ECD01-010 FE-ECD01-030 FE-ECD03-030 FE-ECD03-090 FE-ECD03-120

1. Size

	5	15	15	45	65	kVA
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2. Dimensions

Equipment - width	800	800	800	800	800	mm
Equipment - length	300	1000	1000	1800	1000	mm
Equipment - height	2000	2000	2000	2000	2000	mm
Equipment - weight	120	180	190	250	280	kg

3. Electrical

Phase	Single	Single	Three	Three	Three	phase
Input Volts (phase to neutral)	220	220	220	220	220	VAC
Input Volts (phase to phase)			380	380	380	VAC
Cycle	50	50	50	50	50	Hz
Input amps / phase	20	60	20	70	100	amps
Cell voltage (controlled polarity switching)	12	12	12	12	12	VDC
Output - 12V - amps / phase	400	1200	400	1200	1600	amps
Output - 12V - amps total	400	1200	1200	3600	4800	amps
Cell current (maximum)	330	1000	330x3	1000x3	1350x3	amps
Dosing control	Current pulsing	Current pulsing	Current pulsing	Current pulsing	Current pulsing	

4. Energy

Full kVA over 24 hours uses	115	346	346	1037	1382	kW-hrs (units) / day
Full kVA over 24 hours produces	35	104	104	311	415	Megacoulomb / day

5. Hydraulic performance

Based on contamination: PQ 10ppm	333	1000	1000	3000	4000	m ³ / day
Based on contamination: PQ 100ppm	33	100	100	300	400	m ³ / day

6. Maximum electrode consumption

Full kVA over 24 hours releases	10	30	30	90	120	kg Fe / day
Full kVA over 24 hours releases	3	9	9	28	37	kg Al / day
Full kVA over 24 hours releases	12	35	35	106	141	kg Zn / day

B. ELECTROCHEMICAL REACTOR

Specified	Specified	Specified	Specified	Specified
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C. CONFINED METAL ELECTRODES

Specified	Specified	Specified	Specified	Specified
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