



Ramdoun GROUP

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RAMDOUN ZERO LIQUID DISCHARGE

ZLD

Zero Liquid Discharge (ZLD)

Manage regulatory pressures and meet water reuse goals with an effective ZLD treatment plan

SUEZ offers complete thermal and non-thermal ZLD solutions to manage tough-to-treat wastewaters. SUEZ's proprietary evaporators, brine concentrators, and crystallizers can help recover more than 95% of your plant's wastewater while reducing the remaining brine as a product or solid. SUEZ's Sievers TOC Analyzers help control the quality of water to be reclaimed or recycled in semiconductor operations.

Zero liquid discharge technologies help plants meet discharge and water reuse requirements, enabling your business to:

Meet stringent cooling tower blowdown and flue gas desulfurization (FGD) discharge regulations

Treat and recover valuable products from waste streams

Better manage produced water

Control the quality of water to be reclaimed or recycled.

Parameter	Feed Water Analysis	Treated Water Quality	DM Water Quality
Normal Flow Rate m ³ /hr	1122	813	210
Rated Flow Rate m ³ /hr	1219	813	210
TSS - ppm	20	0	-
TDS - ppm	609	271	0.2
Total Hardness - ppm as CaCO ₃	173	76	-
Ca Hardness - ppm as CaCO ₃	106	46	Nil
Total Alkalinity - ppm as CaCO ₃	170	74	-
Sodium - ppm	87	42	-
Chloride - ppm	89	45	-
SiO ₂ - ppm	3	1	< 0.2
SO ₄ - ppm	92	41	-
pH	7-8.5	8-9.5	6-8
Pressure, kg/cm ² g	4.5	ENPPI to add	2

