

OFFICIAL B2B ENGINEERING SPECIFICATION DOSSIER · BESTCLEAN-DOC-2026-04

INDUSTRIAL PSA OXYGEN-FED OZONE WATER SKIDS & AIR STERILIZATION SYSTEMS

ZCO Oxygen-Fed Water Series (50–1,000+ g/h) · ZCA HVAC Air Series · US EPA Est. No. 102553-CHN-1

Executive Engineering Summary: BESTCLEAN / BERKING manufactures complete skid-mounted PSA oxygen-fed water-cooled corona discharge ozone systems (ZCO Series, 85–120 g/Nm³ high ozone concentration) for food/vegetable washing water recirculation, CIP sanitation, and bottled water plants, alongside ZCA HVAC air-source sterilizers and US EPA Est. No. 102553-CHN-1 registered commercial shock ozone machines.

1. Quantitative Engineering, Compliance & FOB Xiamen Reference Matrix

Model / System Configuration	Guaranteed O3 Output & Conc.	PSA O2 & Gas/Water Skid Scope	Instrumentation, PLC & Materials	Ref. FOB Xiamen (USD)
BJ-10 / 20 / 30 (Commercial Portable)	10 – 30 g O3/h (Air-fed)	Micro-gap quartz / honeycomb ceramic · 24h digital timer	SUS304 housing · EPA Est. No. 102553-CHN-1 · 110V/220V	\$140 – \$360 / unit
ZCA-50 ZCA-200 (HVAC Cleanroom)	50 – 200 g O3/h (Air-fed)	Cleanroom AHU duct injection (replaces formaldehyde fumigation)	20–100% PWM output · PLC timer · SUS304 cabinet	\$1,200 – \$3,600 / set
ZCO-200 Complete Water Skid	200 g O3/h · 85–110 g/Nm³	PSA O2 (90–93%, dew point < =-45C) + Booster + PVDF Venturi	Dissolved O3 + ORP + Off-gas destructor + PLC RS-485	\$9,800 – \$13,500 / skid
ZCO-300 Complete Water Skid (20 m³/h)	300 g O3/h · 90–120 g/Nm³	Water-cooled quartz dielectric + PSA O2 + Static Mixer + Tank	AISI 316L / PVDF / PTFE wetted + Ambient O3 safety interlock	\$13,800 – \$18,500 / skid
2 × ZCO-150 Modular Redundant Skid	2 × 150 g O3/h (300 g/h total)	Dual independent PSA + corona modules (50% turndown / N+1)	Full HMI touchscreen + Modbus RTU + 2-yr spare parts kit	\$15,200 – \$19,800 / skid

2. BESTCLEAN / BERKING Factory Verification & Buyer Protection Guarantees

1. Direct Factory Manufacturing

Longhai Berking Purification Equipment Co., Ltd. (Zhangzhou, Fujian · 45 min to Xiamen Port). In-house fiber laser CNC, press brakes, and mini-pleat HEPA lines cut 15-25% middleman markups.

2. Verified FAT & Certificates

ISO 14644-1:2015, ISO 9001:2015, CE Machinery/LVD, US EPA Est. No. 102553-CHN-1, EN 1822 H13/H14, EN 10204 3.1 SUS304/316L MTC. Pre-shipment SGS/BV/TUV witness testing welcomed.

3. Global & SE Asia Delivery

3 delivery modes: (A) Modular Material & Equipment Kit FOB/CIF; (B) Kit + Chief Engineer Supervision; (C) Turnkey EPC across Vietnam, Thailand, Indonesia, Malaysia & Philippines.

Fast-Track Stage-1 Engineering Scope, CAD Layout & Itemized BOQ (2-Hour Response SLA)

Send your floor plan, room dimensions, target ISO class, or equipment list to **Alex Gao** at **alex@bestcleanmfg.com** or WhatsApp **+86 139 2512 2895** (Web: **www.bestcleanmfg.com/contact**). We return a preliminary CAD zoning layout, airflow/ozone sizing calculation, and itemized factory-direct FOB/CIF quotation within 24 hours.